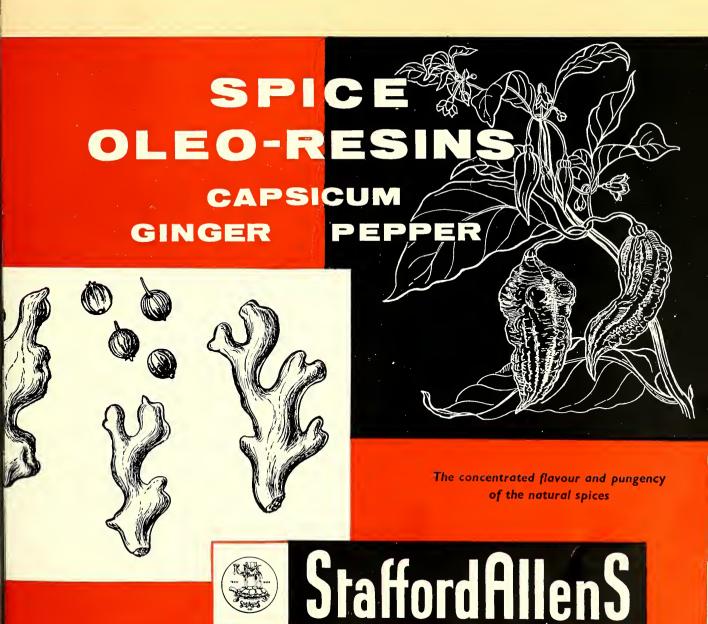


CHEMIST AND DRUGGIST

For Retailer, Wholesaler and Manufacturer

SEPTEMBER 19 1959



FINE CHEMICALS

and pharmaceuticals

Specification sheets for each of the products listed are available on request.

ALOIN CAMPHOR MONOBROMIDE CHLORAL HYDRATE **CHLOROFORM CHRYSAROBIN ERGOT PREPARED** ETHER ANÆSTHETIC **ETHER SOLVENT** DRY EXTRACT OF CASCARA SAGRADA **EXTRACT OF MALE FERN** FERRIC AMMONIUM CITRATE FERRIC QUININE CITRATE SACCHARATED FERROUS CARBONATE SACCHARATED FERROUS PHOSPHATE JALAP RESIN JALAP PREPARED **JALAPIN** MAGNESIUM TRISILICATE **OLEORESIN OF CAPSICUM** OLEORESIN OF GINGER PODOPHYLLUM RESIN POTASSIUM CITRATE **SALIGENIN** SCAMMONY RESIN SODIUM CITRATE SODIUM TAUROGLYCOCHOLATE

SMITH OF EDINBURGH

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Solution
Loss on Drying

T. & H. SMITH LTD

Water Soluble Extraction

Bulk Dens
Packing Des

Action ar

NEURAL THERAPY

Considerable publicity is now being given in the lay press to Neural therapy. This has resulted in numerous enquiries regarding the use of a procaine/caffeine combination to relieve—virtually instantaneously—intolerable painful conditions. In these circumstances we feel it desirable to advise the profession that the original German product manufactured by Farbenfabriken Bayer AG. is obtainable in Great Britain through F B A Pharmaceuticals— in the following presentations:—

PROCAFIN

Ampoules (2 ml.)—5's

Ampoules (5 ml.)—5's

DEPOT-PROCAFIN

Ampoules (2 ml.)—5's

Ampoules (5 ml.)—5's

Our own publication "Procafin in Neural Therapy" is available on request.

F B A PHARMACEUTICALS LIMITED

37/41 Bedford Row, London, W.C.1.

Sole distributors for FARBENFABRIKEN BAYER AG., LEVERKUSEN, GERMANY.



SOLPRIN · CODIS · CAFDIS

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General acceptance won by Solprin, Codis and Cafdis is due to their aspirin content being soluble and substantially neutral. Consequently all three are quick acting and are far less likely to upset the stomach. Medical opinion to-day is overwhelmingly in support of soluble aspirin. This is why doctors prescribe Solprin, Codis or Cafdis, and this is why the chemist dispenses them so often.



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Soluble aspirin with codeine and phenacetin.



Soluble aspirin, phenacetin and caffeine.

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PIFCO

MASSAGER

offers these

three benefits!







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The tremendous benefits of home massage with the Pifco Massager will be explained to millions of families this autumn on all ITV stations. Further advertisements will appear in many national magazines.

Make a point of profiting from this hard-selling campaign. Have plenty of Massagers available; use show-cards and leaflets for windows and counters.

The Massager is strongly made, and beautifully finished in Ivory plastic. An adjustable regulator

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An intriguing campaign for Rozalex barrier creams is appearing in the women's magazines. It's to remind women to make a habit of using these barrier creams regularly. Link up with these advertisements by displays — and how are your stocks of No. 1 cream for dry work, No. 8 cream for wet work?

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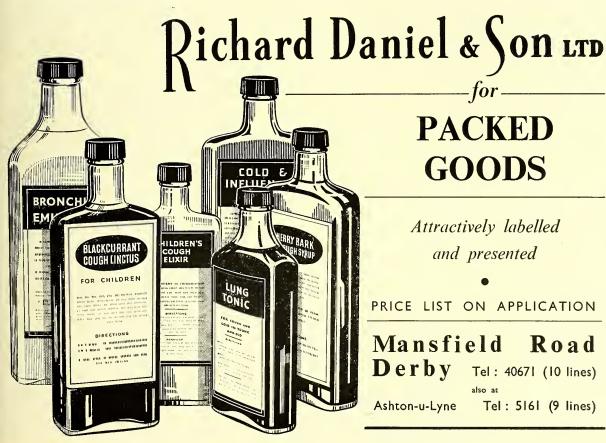
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of German origin are available at a very favourable price.

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Hamburg I/Germany Bergstr. 26

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An improved form of LIQUID ORAL IRON Syttom

IRON DEFICIENCY ANAEMIA - CASE REPORT									
	SEX F	NAME		Anne					
KNOWN BLOOD None Normal periods	LOSS	DOSAG Sytr		IRON		ATE OI			THERAPY 8/5/57
HAEMATOLOGICAL EX	Dates Dates	5 7 5 57	14 5 57	21 5 57	28 5 57	4 6 57	12 6 57		
Hb.g./100 ml.		7.7	9.0	112	13.0	13.7	14.5		
R.B.Cs. m./c.mm.		3.67					5.1		
P.C.V. %		25					46		
M.C.V. c.μ.		68.1					90.2	\	
M.C.H.C. %		30.8					31.5		
Reticulocytes %		0.3	2	3.2	5.3	2.1			
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W.B.Cs./c.mm.		7,300							2.00
Polymorphs		66							
Lymphocytes		31							
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SYTRON* is a pleasant cherry flavoured elixir containing in two teaspoonfuls the equivalent of 55 mg. of iron as a chelate, sodium ironedetate. It has little or no astringent taste and is well tolerated by children. SYTRON does not stain the teeth and in its recommended dosage seldom causes intestinal irritation.

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THE FOREMOST TABLET HOUSE



Press + T.V. Advertising will SELL more ANTI-BI-SAN

this Autumn-STOCK UP NOW at Bonus Terms



An extensive advertising campaign for ANTI-BI-SAN this Autumn using Reader's Digest—with a readership of 8,158,000—and local concentrated TV and press coverage, starting early October, will tell everyone how to avoid colds and 'flu. You'll need to order more ANTI-BI-SAN this year than ever before! Lay in your season's stock of ANTI-BI-SAN by taking advantage of the generous "12 for 10" bonus offer.

ANTI-BI-SAN

the well-proved 3-day oral vaccine treatment in tablet form.

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12 for the price of 10

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8/6 Perfume (3/9) Top-to-Toe (4/9)

No. 1559

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Perfume (3/9)
Perfume Stick (4/9)
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5/9
June Perfume (3/9)
4 Bath Cubes (6d each)

No. 959

E CELL

26/3

SILK LINED. Orange Blossom Perfume (3/9), Perfume with spray of flowers (9/6), Top-to-Toe (4/9), Perfume Stick (4/9),

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Puffer Talc (3/6).

CHRI

JUNE PERFUME GREETINGS CARD



Greetings for all occasions. A delightful miniature Greetings Card with a bottle of June perfume.

The bouquet of June flowers specially painted for Saville by John Nyari.

Greetings Envelope with each card 15/- per box of six.

No. 31

4/3
June Talc (tin) (2/9)
3 Bath Cubes (6d each)

No. 2059



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FOR CHRISTMAS

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SILK LINED Perfume (3/9) Top-to-Toe (4/9) Perfume Stick (4/9)

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9/9

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No. 459

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1GS



7/-June Puffer Talc (3/6) Hand Cream (2/6)
2 Bath Cubes (6d each) No. 1959

9/6

14 5

erfume with Spray of rtificial Orange lossom in transparent resentation.

No. 504



Perfume (3/9) Puffer Talc (3/6) No. 1859

7/3

NEW-

" PUFFER "

TALCS BY

SAVILLE

3/6 each No. 36

Silk soft perfumed Talc, containing a modern scientific deodorant. In four popular fragrances.

JUNE MISCHIEF ORANGE BLOSSOM SEVENTH HEAVEN



Freddie Truemai THE*NE*M

TV CAMPAIGN BEGINS SEPTEMBER 5TH WILL AVERAGE 20 MILLION VIEWERS EVERY WEEK

This is the TV campaign everyone will talk about: Freddie Trueman, idol of Yorkshire and England, will demonstrate the speed and power of the New Remington by shaving off his tough beard in hard-hitting Remington one-minute commercials. Freddie Trueman grew this beard specially to help all Remington dealers sell the shaver with the biggest profit.



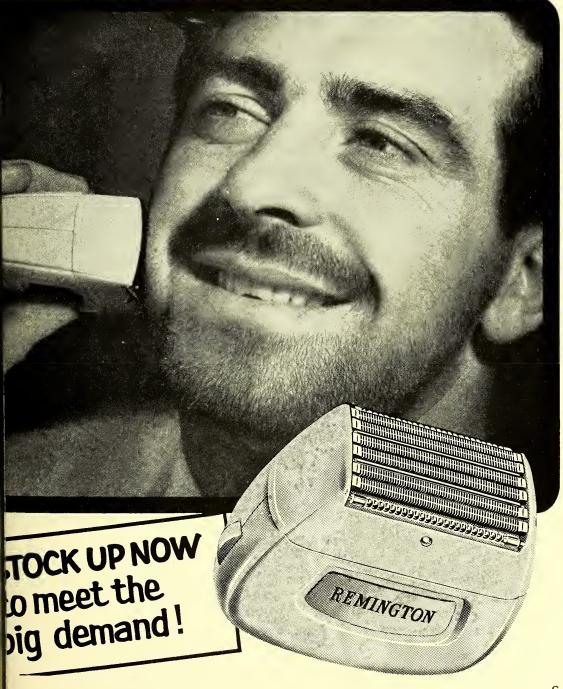
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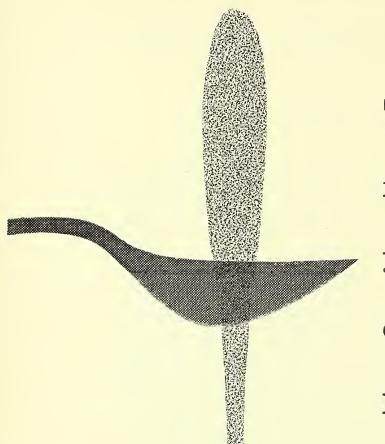
will feature these famous sporting personalities: Free Trueman, John Surtees, Mel Charles and Jimmy I

LINK UP WITH THIS TREMENDOUS CAMPAIC

using striking display material and dealer advertments; Send now for details.

vill help you sell EMINGTON





THIS

is the name
you'll be seeing
on more and more
prescriptions



SUSPENSION..

'Distaquaine' V-K is already firmly established as the most efficient of oral penicillins—
presenting as it does the soluble potassium salt of penicillin V. It is absorbed more swiftly than the earlier penicillin V free acid if given on an empty stomach and therefore secures more rapid and higher blood levels.

NOW with the introduction of 'Distaquaine' V-K Suspension, potassium penicillin V is

available for the first time as a ready-prepared suspension. DQV-K Suspension needs no reconstitution

or other preliminaries. Notice, too, that new DQV-K Suspension is pleasantly flavoured—

it is also very stable. Good reasons, these, why more and

more doctors will be prescribing DQV-K Suspension. Be sure to have ample

stocks in hand, in readiness to meet fast-growing demands.

- Ready-prepared—can therefore be dispensed without any preparation
- Unusually stable—no special storage precautions necessary
- Delightfully flavoured—acceptable to patients of all ages

the first READY-PREPARED suspension of potassium penicillin V

In current medical publicity for this important new product, doctors are being reminded to use the simple and recognised contraction for 'Distaquaine' V-K, namely-



125 mg. penicillin V free acid as potassium salt per 5 ml. teaspoonful.

PACK AND TRADE PRICE:

Bottle of 60 ml. (approx. 2 fl. oz.) -8s. 10d.

THE DISTILLERS COMPANY

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PPH14/59A

a new magazine

FOR THE

PERFUMERY TRADE



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FENOX

Nasal Drops Retail Price 2/6 ½fl. oz.

STREPSILS

Antiseptic Lozenges Retail Price 2/6 per tin

for only **85'6**

(plus 8/4 P. Tax)

At this price, in every parcel you are getting the equivalent of

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There is no limit to the number of parcels you may order.

This offer is open from Sept. 14th to Oct. 10th

Order now, from your usual wholesaler, to meet the certain winter prescription demand.





Hersonality

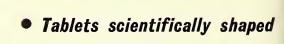
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SOAP

NOW LINKED WITH THE

Perfumed soap petals

4 delightful Floral Fragrances



- High quality triple-milled lanolin enriched soap
- Attractive packaging
- Attractive price!

o win sales! BIG PROFIT MARGINS

PROFIT ON EACH 1/6 TABLET

which equals

5% ON COST (excluding P. Tax)

the Soap Petals, comes VER - FRESH . . . elegantly i, delicately tinted, delightfully ned. In every way the soap likely to appeal . . . the soap ertain to succeed.

VER-FRESH soap is handpresented—and every sale you a handsome profit. Yet r Personality quality product to make friends-and to make

Not available from wholesalers

PERSONALITY

DE - LA - ZOUCH · LEICESTERSHIRE

x of FLOWER-FRESH soap ains three tablets of Lavender, ena, Rose Geranium or Sweet Fern. cellophane inner-flap keeps the dust-free, yet allows the customer e and smell the tablet. WER-FRESH not only

1-but sells itself!



Between now and Christmas in the

DAILY EXPRESS

(Daily readership of 12,000,000)

7 FULL PAGE

in the dynamic 'Man Alive'—
Go modern with PHILIPS

PHILISHAWE

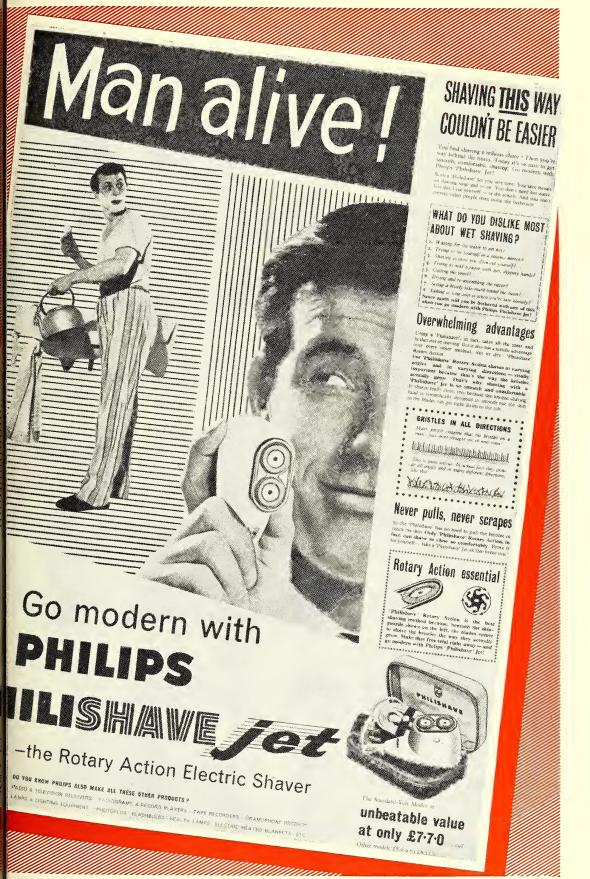


advertising campaign

So you're going to need a lot of Philishave better order good and early!



Philips Electrical Ltd • Century House · Shaftesbury Ave · London · W.C.2



RETAILERS!

Over 40% Profit on R.S.P. for you

Our representative will give you details and eye-catching display material including an elegant plastic stand.

New! A glamorous new bot New! Nulon in a tube

TRADE PRICES

Tubes: 11/8 per doz. Small bottles: 10/3 per doz.

Large bottles: 15/2 per doz.

RETAIL PRICES

Tubes: 1/10 Small bottles: 1/7 Large bottles: 2/4¹⁄₃

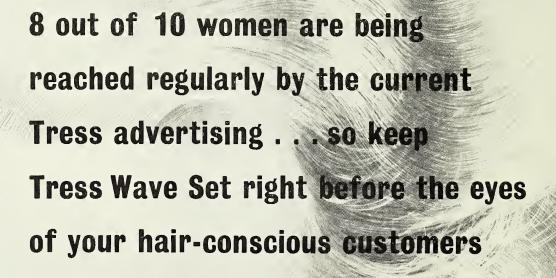
New! An exciting sales-getting TV Campaign!

It will tell women everywhere the Nulon story—how, when their hands are in and out of water all day, they need Nulon—because Nulon has lanolin, glycerine and almond oil, the three perfect ingredients for hand care.

The new bottle and the new tube will be featured in the television campaign.

BOUT NULON







TRADE TERMS

SMALL SIZE: Price 9/- per dozen bottles plus 50% tax selling at 1/6 per bottle. LARGE SIZE: Price 15/- per dozen bottles plus 50% tax selling at 2/6 per bottle.

From your usual wholesaler or from:

GOLDEN LIMITED, 7 Grosvenor Street, London, W.1. Hyde Park 1671

ikes your Set

Better than ever before and now for £16.17.6

BellEHowell THEN



Backed by big advertising, the new Bell & Howell Hi-lyte 707 projector's appeal takes its place as a certain top seller.

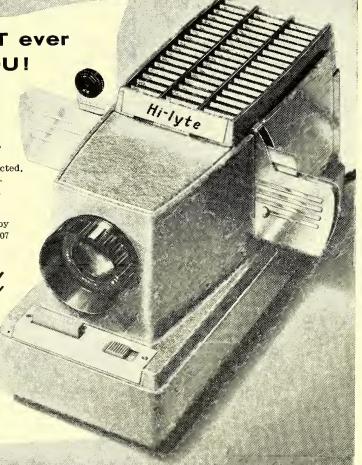
Brilliant natural colour fidelity by new, cool, 'WHITE LIGHT' ... razor-sharp, edge-to-edge pictures by 4" colour-corrected, anastigmat lens ... safe, cool handlingpowerful, silent, fan cooling...yet sells at £16.17.6.

Backed by the Bell & Howell name and by extensive advertising, the new Hi-lyte 707 moves easily from your shelves ... take stock and profit from NOW on.

The Bell E Howell HI-LYTE 707

Price £16.17.6

300 watt lamp extra. Price £1.13.0. The new Bell & Howell 2" x 2" slide projector operates on A.C. 200-250 volts. Radio and TV suppressed. Also smart carrying case. Price £1.19.6.





RANK PRECISION INDUSTRIES LTD.

CINE & PHOTOGRAPHIC DIVISION, MITCHELDEAN, GLOUCESTERSHIRE.



this handy new serve-yourself dispenser for one doz. ZUBES tins



- Backed by powerful advertising in 6 National Daily Newspapers, and on all T.V. Stations!
- Striking Tube Cards will be seen in all compartments of every London Underground train!
- Now! Only one size tin for you to stock!
- Be ready for the terrific demand ahead for ZUBES!

Stock up NOW—for best-ever sales this winter of Britain's leading cough lozenges

ZUBES are good for your tubes & AND YOUR SALES

F. W. HAMPSHIRE & CO. LTD · SUNNYDALE · DERBY

PRICE REDUCTION

TABALGIN

brand

0.5 g. paracetamol tablets

From 1st September, 1959 revised trade prices for this heavily prescribed analgesic are

Bottles of 75/100 TABLETS

Bottles of 27/9 each



φειδωλία WEST PHARMACEUTICAL Co. Ltd. 9 Palmeira Mansions,

Church Road, Hove 3, Sussex.

Telephone: Hove 70608



EMIST

The weekly newspaper for pharmacy and all sections of the drug, pharmaceutical and fine chemical, cosmetic, and allied industries

Official organ of the Pharmaceutical Society of Ireland and the Pharmaceutical Society of Northern Ireland

Volume 172

September 19, 1959

No. 4153

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Telegráms: Chemicus, Estrand, London WOLVERHAMPTON: 89 Woodland Avenue, Tettenhall Wood, GLASGOW: 160 Nether Auldhouse Road, S.3. *Phone: Langside* 2679. LEEDS, 16: 32 Wynford Rise, West Park. *Phone: Leeds* 67 8438.

ANNUAL SUBSCRIPTION

which includes The Chemist and Druggist Diary and Year Book, £2 10s. Single copies one shilling each.

Elegance with Efficiency



With 'Redoxon' effervescent tablets 1 G. a glass of water can be transformed into a pleasing effervescent drink containing a massive dose of

Vitamin C. Such doses are indicated in the treatment of febrile conditions in which the reserves of Vitamin C are rapidly depleted.

'Redoxon' effervescent tablets 1G. are supplied in tins of 10.

Volume 172

SEPTEMBER 19, 1959

No. 4153

Cosmetic Chemists

AN INTERNATIONAL FEDERATION

AS a result of informal discussions in London earlier this year between cosmetic chemists from all over the world (see C. & D., May 9, p. 494) an International Federation of Societies of Cosmetic Chemists has been formally constituted at meetings held recently in Brussels.

First president of the Federation is M. G. de Navarre, Ph.C., B.S., M.S., a founder member and first president of the [American] Society of Cosmetic Chemists. An interim management committee comprising Messrs. R. H. Marriott, D.Sc., F.R.I.C. (U.K.), L. W. Masch and Dr. Ing (Germany), and W. Pfoiffer Dial Log (Germany), and K. Pfeiffer, Dipl. Ing. (Switzerland), has been set up. The secretariat of the Federation is at present located in London. Mrs. E. Millman (general secretary of the British Society of Cosmetic Chemists) is acting as secretary. Inquiries should be directed to her at 2 Lovers Walk, London, N.3.

Pipeline from "Pub"

"AMENITY" OF A CLOSING PHARMACY

AFTER more than 150 years in the High Street area of Sheffield, the pharmacy of Newsholme, Ltd., is removing from 27 High Street to Exchange Street on the expiry of the lease. Part of the old premises was formerly a cutlery workshop, and in one wall is still an iron pipe which it is believed ran to a nearby public house. When the cutlers needed refreshment they apparently had a way of signalling the public house and beer was sent down the pipe. At the pharmacy in Victorian times a junior assistant or senior apprentice had, according to an old rule prentice had, according to an old rule card, to be in attendance while the shutters were taken down, the shop swept, and the brass cleaned by the porter and the boys. The pharmaceutical business was founded in 1807 and later bought by Mr. G. T. W. Newsholme, the first provincial pharmacist to become president of the Pharmaceutical Society. tical Society.

Symposium on Analgesia

A MANUFACTURER'S SPONSORSHIP

UNDER the auspices of Duncan, Flockhart & Co., Ltd., of Edinburgh, a symposium on "Recent Advances in Analgesia" is being held at British Medical Association House, 7 Drumsheugh Gardens, Edinburgh, 3, on October 2, Among those invited are authorities from the United Kingdom, the United States of America and the United States of America, and Denmark. Dr. Nathan B. Eddy

(National Institute of Health, Bethesda, Maryland, U.S.A.), who is delivering the sixth Lister Memorial lecture on the previous day in Edinburgh, on "The chemical structure and action of morphine-like analgesics and related substances," is attending the symposium. The chairman is Professor D. M. Dunlop (professor of therapeutics, Edinburgh University).



RETIREMENT PRESENTATION: Mr. J. West, M.P.S., who retired on August 31 from the position of Chief Pharmacist at the Glasgow Royal Infirmary after thirty-eight years' service, twenty-four as Chief Pharmacist, was given a dinner in his honour in Glasgow on September 9 and presented with a gold wristlet watch by Smith & Nephew, Ltd., Welwyn Garden City, Herts. The presentation was made by Mr. A. Lucas (a director).

CONFERENCE TIMETABLE

THE following is the programme of events arranged for the British Pharmaceutical Conference meeting at Bournemouth, September 21–25. Times of morning events are given in light, afternoon events in heavy types:-

MONDAY

10.30: At the pavilion ballroom: morning coffee.

11.15: At the pavilion ballroom: opening session and address by the Conference chairman.

2.30: At the grand hall, town hall: science session.

Ladies' excursion.
8.00: At the pavilion ballroom: civic reception.

TUESDAY
9.30: At the grand hall, town hall: professional session. At the pavilion popular restaurant: science session.

Ladies' excursion.

2.30: At the grand hall, town hall: science session. Ladies' excursion.

7.15: At the pavilion: Conference banquet.

WEDNESDAY

9.30: At the grand hall, town hall: science session.

12.00: At the pavilion ballroom: conference luncheon.

1.00: Conference excursion. Afternoon tea en route.

THURSDAY

9.30: At the grand hall, town hall: symposium session. Ladies' excursion.

Afternoon: At Meyrick park golf course: competition for Edmund White golf trophy.
At Meyrick park: Bowls competition for London challenge cup. At West Hants lawn tennis club: Tennis tournament for Jephcott

cups. Evening: Theatre.

FRIDAY

9.30: At the grand hall, town hall: professional session. At the pavilion popular restaurant: science session. Ladies' excursion.

2.30: At the pavilion popular restaurant: science session.

3.45: At the pavilion ballroom: Afternoon tea.

4.15: At the pavilion theatre: closing session.

8.00: At the pavilion ballroom: Conference ball.

A Minister for Science?

CONSERVATIVE PARTY POLICY

MINISTER for Science, with the task of promoting scientific and technological development and the responsibility for the Department of Scientific and Industrial Research, Medical and Agricultural Research Councils, etc., is among changes promised in the manifesto of the Conservative and Unionist Party, "The Next Five Years." Vaccination against poliomyelitis for everyone up to the age of forty, and to all specially vulnerable groups, as well as a big programme of hospital building are also promised. The document includes the information that about sixteen new general or mental hospitals and about fifty major extension schemes are under way. The Conservative Party's target during the next five years is to double the present capital programme. The manifesto also states that the level of doctors' and dentists' pay in the health services will be considered so soon as the Royal Commission has reported, and expresses a readiness to consider, with representatives of the professions, their status in the health services. Local authorities will be encouraged to develop their health and welfare services and a National Council for Social Work Training will be set up to recruit and train the extra social workers who will be needed.

More Consumer Tests

SOME TENTATIVE CONCLUSIONS

REFERRING to some of the trials that have been carried out to discover the efficacy of various travel sickness drugs the latest edition of Shoppers' Guide issued by the Consumer Advisory Council suggests "further tests are necessary before any definitive statement can be made on travel sickness drugs." Nevertheless the Guide considers the results to suggest certain tentative conclusions. "If you are going to be subject to motion for at least twenty-four hours, meclozine seems to be both convenient and effective-only one daily dose being necessary; cyclizine also appears effective for long journeys—if taken three times daily—but it has only a six-hour action so is also suitable for the shorter journey; hyoscine is very effective for short journeys of about five hours, but may not be so suitable for frequent dosage on longer journeys, though there is some dispute about this conclusion."

Comparison of the costs of black and white and colour photography based on two popular sizes of film -35 mm. lead the *Shoppers' Guide* to the conclusion "Colour prints compared with black and white ones are expensive. Colour transparencies, on the other hand, are not a great deal dearer—particularly where 35 mm. film is used."

A Factory Extension

APPROVAL DESPITE PROTESTS

EASTBOURNE town council have agreed, despite protests from two organisations, on the terms for alterations and additions to the premises of Armour Pharmaceutical Co. (Armour Chemical Industries, Ltd.), Hampden

Park, Eastbourne, Sussex. The council considered a letter from the Eastbourne branch of the British Union for the Abolition of Vivisection protesting against the proposed alterations and additions if the premises were to be used to render it possible for animals to be "cruelly exploited or for the purpose of vivisection." A similar letter was received from the Crusade Against All Cruelty to Animals, Both organisations have been informed by the council "that, in the council's opinion, the company's methods of research, which do not include the cruel exploitation or the vivisection of animals, are justi-fied by the resultant benefit to human beings.

Import Duties

CHANGES UNDER A NEW ORDER

THE Treasury has made the Import Duties (General) (No. 9) Order, 1959 (S.I., 1591) which amends certain of the rates of customs duty in the United Kingdom Customs and Excise Tariff. Changes effected by the Order include a reduction of import duty from $33\frac{1}{3}$ per cent. ad valorem to $33\frac{1}{3}$ per cent. of the value of the vitamin content (other than natural vitamin concentrates) or 10 per cent. ad valorem, whichever is the greater, on certain vitamin supplements used in animal feeding (heading 23.07) and from 10 per cent. ad valorem to 2s. 9d. per lb. on certain platinum catalysts (heading 38.19).

Test Script Refusal

GROUNDS "NOT CONSCIENTIOUS"

A DOCTOR in the Midlands has been informed that his refusal to comply with a request for the issue of a prescription for testing purposes was not based on conscientious grounds, and therefore the Executive Council could see no reason why he should be relieved of complying with that requirement of the terms of service. That information is given in the Executive Council (10. 203) which reveals that the doctor refused to write the prescription on the grounds that it was not required for therapeutic purposes.

Symposium on Cancer TREATMENT PROGRESS DISCUSSED

AT a recent symposium at Geneva, international medical authorities agreed that progress had been achieved in cancer treatment. British, American and French authorities discussed a new technique of marrow grafting in the treatment of leukæmia.

IRISH NEWS

THE REPUBLIC

I.D.A. List

1959 EDITION

THE Irish Drug Association's 1959 Index List which has just been issued is a useful work of reference. It has over 500 pages dealing with prices, and in addition to the names of the I.D.A. committee members gives a list of local associations and their secretaries. Members from the various towns are also given in alphabetical order.

THE NORTH

Ulster Year Book

HEALTH SERVICES REVIEWED

A COMPARISON of expenditure on health services in Northern Ireland with that in Britain in the Ulster Year Book, 1957-59 (H.M. Stationery Office, price 6s. 6d.) shows that total Exchequer expenditure in 1957–58 amounted to 256s. 4d. per head in Northern Ireland against 246s. 7d. in Britain. "Within those totals, however, some significant differences reveal themselves. For instance, net revenue expenditure per head of population on hospital and specialist services was only 133s. 8d. in Northern Ireland, compared with 152s. 4d. in Great Britain." That, it is considered, indicated among other factors that some leeway still existed between the two hospital services. But the survey continues: "On the other hand, capital expenditure per head on hospital and specialist services was no less than 35s. 10d. in Northern Ireland, compared with 8s. 8d. in Great Britain. At that rate, the remaining leeway will clearly be made up very rapidly." On General Health Services (general medi-cal, dental, pharmaceutical and eye services) expenditure per head in Northern Ireland exceeded that in Britain, the figures being 77s. 7d. and 71s. 4d. respectively. The excess in Northern Ireland was mainly accounted for by higher expenditure on pharmaceutical services, offset to some degree by slightly lower expenditure on general dental services. The survey points out that the amount of sickness (morbidity as distinct from mortality) in the community was the most difficult of all factors to assess. Judged in terms of admission to hospitals, consumption of medicines and other similar evidence, morbidity other similar evidence, morbidity appeared to be increasing. "Yet the register of persons drawing sickness benefit showed a lower monthly average during 1958 than at any time since the inception of national insurance schemes ten years previously; and it is beyond doubt that the new services have relieved or cured much sickness and prevented much suffering." Year Book, which is published every three years, is full of statistical information, all of it useful in many ways.

IRISH BREVITIES

THE REPUBLIC

THE annual meeting of the Cork City and County Chemists' Association is to be held at the Imperial hotel, Cork, at 3.30 p.m. on October 4.

THE annual dinner and dance in aid of the Benevolent Fund of the Pharmaceutical Society of Ireland, run jointly by the Cork City and County Chemists' Association and the Cork Guild of Pharmacy is to be held at the Imperial hotel, Cork, on December 9.

AMONG the eighteen pharmacists from the Republic attending the British Pharmaceutical Conference, Rournemouth, September 21-25, are the president and immediate past-president of the Pharmaceutical Society of Ireland, the Society's registrar and the dean of the College of Pharmacy, and the president and secretary of the Irish Drug Association.

NEWS IN BRIEF

THIRD edition of the illustrated guide to the Royal Botanic Gardens, Kew, is now available (H.M. Stationery Office, price 2s. 6d.).

AT August 18 the official index figure of retail prices (January 17, 1956, taken as 100), was 1093 compared with 109 for July.

THE report of a World Health Organisation study group on iron-deficiency anæmia (technical report series No. 182) is available from H.M. Stationery Office, price 1s. 9d.

CAMERAS worth £150 were stolen from the window of J. Welsby (Chemist), Ltd., 747 Knutsford Road, Warrington, Lancs, early on September 8. A stone was used to smash a plate-glass window.

MR. R. S. Medlock, B.Sc., A.R.I.C., A.M.I.E.E., A.M.I.Mech.E. (technical and home sales director of George Kent, Ltd.), has been elected president of the Society of Instrument Technology.

THE Government Committee on Consumer Protection has indicated that representations relevant to the committee's inquiries should be submitted in writing to the secretary: Mr. S. W. T. Mitchelmore, Board of Trade, Horse Guards Avenue, London, S.W.1.

To aid in medical diagnosis Russian scientists have designed electronic apparatus reported to have a "repertoire" of 100 diseases. An American machine for a similar purpose and based upon the Cornell Medical Centre, New York, is claimed to have had only a 5 per cent. error in 350 cases.

A NEW index of ethical preparations free to general practitioners and hospitals has just been issued. It is entitled the Monthly Index of Medical Specialities (MIMS) and is published by Medical Publications, Ltd., 302 Malden Poad, New Malden, Surrey. Editorial adviser to the new products section is Dr. T. D. Whittet. The Index is being sent free of charge to all hospital pharmacists and family doctors in active practice. Others may obtain MIMS for a subscription of £1 1s. annually.

SPORT

Golf.—IRISH CHEMISTS' GOLFING SOCIETY, at Elm Park golf-club on September 2. Prizes presented by Irish Pharmaceuticals, Ltd., and Evans Medical Supplies (Ireland), Ltd. First strokes, S. Donnelly (15), 68; Second Strokes, E. McManus (16), 70; First Bogey, R. Tierney (12), one up; Second Bogey, A. Walsh (8), one down; Best First Nine, D. P. McHugh; Best Second Nine, J. Howard. The next (final) outing of the season is at Hermitage golf club on September 30.

ULSTER CHEMISTS' GOLFING ASSOCIATION, at Shandon Park golf club, on September 9. Captain's day. Captain's Prize, G. B. Campbell 70 net; 2, J. E. L. McFarland, 71. Best Gross, J. F. McErlean. I.C.J. prizes, 1, J. Graham; 2, A. Atkinson. Mr. R. Moore was elected captain for 1960 and Mr. J. N. Hogg vice-captain.

LONDON CHEMISTS' GOLFING SOCIETY, at Hendon golf club on September 10. Visitors' day. Sanger Cup, H. A. Coward (10), 68. Mentholatum Prize, E. G. Nice (11), 2 down. D. & W. Gibbs' prize, Dr. R. Powell (10), 73. Visitors' Prizes, I. R. W. Trill (7), 64; 2, H. A. Southgate (9), 68; J. Flexman (16), 68.

TOPICAL REFLECTIONS

By Xrayser

Bounty

Subscribers who came through the period of short commons occasioned by the printing stoppage have no reason for complaint in a week which has brought two issues. I remarked last week that the unusual conditions had resulted in the untoward circumstance of the appearance of Christmas information in advance of the Annual Special Issue, but the delay has made the publication even more welcome than usual. It is, presumably, a matter of expediency to publish the annual as a separate and distinct publication, and not as a combined weekly and annual issue in one cover. My first reaction to the innovation was that, whatever disadvantages it may have editorially, the method has a good deal to commend it. The copy may be taken home and read at leisure, for it is unencumbered with price changes and the sundry other day-to-day information that makes the normal issue one to have at hand in the pharmacy. It may be that you have, by force of circumstances, introduced something which your readers may wish to see again [but there might be difficulties in a normal year—EDITOR]. Both the material and the form of presentation must give satisfaction to those who have struggled with the difficulties of production this year, and I feel sure that the appreciation of subscribers will do much to compensate for the trying circumstances and frustration of recent weeks.

The contents

There is much good material in the Annual Special Issue, and I was greatly interested in the article on patent medicines in America. The situation appears to have resembled that of this country in many particulars, and the gentle art of piracy was practised quite as extensively on the other side of the Atlantic as it was here. I believe the balsam of Robert Turlington to have been none other than the widely exploited friars' balsam, among whose synonyms, was Turlington's drops. It was to be expected that the notorious "Sir" John Hill would find a means of exploiting a new market overseas, for he was a man of enterprise, as well as a botanist of considerable renown. Later advertisements for his products described the then late Sir John as the Linnæus of Britain, and advised purchasers of the medicines to observe the name of the Hon. Lady Hill written on every label. Since the "Honourable Relict and Executrix of this deceased great and able Physician" had what is today stigmatised as a vested interest in the departed and his remedies, it may be imagined that she was not an unbiased critic. Nevertheless, Hill did publish a large number of works on botany and medicine, and his "Useful Family Herbal" was designed to assist the good ladies who gave medicines to their sick neighbours.

Other features

In view of the informative article on the physic gardens of Oxford and Chelsea, it is of interest to note that John Hill, mentioned in the preceding paragraph, had herb gardens at Lancaster Gate, Bayswater. In a medicine that was predominately botanical, it was only natural that physician and botanist were frequently found to reside in one and the same person. The information on Mr. Gibson's physic spoon should, as the author suggests, dispose of popular misconception that our forebears indulged in the unhygienic habit of blowing the medicine down the patient's throat. Besides, there was always the danger that a patient of contrary disposition might blow first! It is impossible to refer to all the good things in the Annual Special Issue, but it is worth remarking that the historical material ranges from the second century, A.D., and Galen, to the regrettable disappearance of a famous pharmacy in Edinburgh in 1958. I regret I am unable to throw any light on the item in the Elizabethan apothecary's inventory listed as Osletes, but the item appearing as bismalve root in althea or dialthea ointment, followed by a question mark, is marshmallow root. I hope that one of your readers will identify osletes and thus complete a fine piece of work.

TRADE NOTES

Sole Agents.—Organon Laboratories, Ltd., Brettenham House, Lancaster Place, London, W.C.2, announce that, from October 1, Evans Medical (Ireland), Ltd., Distillery Road, Dublin, are acting as sole agents for Organon ethical pharmaceuticals and Endocil in the Republic of Ireland.

Distributing Agency. — The Bevington Merchandising Co., Ltd., 41 Market Street, Brighton, have been appointed distributors for the MEM Co. of America and Austria, manufacturers of toilet soaps, bath preparations and soap novelties.

Replaced. — E. R. Squibb & Sons, Ltd., Edwards Lane, Speke, Liverpool, 24, announce that their product Rubraton elixir has been replaced by Rubraton-B elixir. The new product, which is available in the same packs and at the same prices as for Rubraton, contains added vitamins of the B complex, and the same content of vitamin B₁₂ and iron as Rubraton. It is issued in bottles of 4, 16 and 80 oz.

Specialist Wholesalers of Shavers.—In order to commence activities in the Midlands as a wholesaler specialising in electric shavers, Mr. R. G. Spencer is relinquishing his position as field sales manager of the shaver division of Remington-Rand, Ltd. Mr. Spencer believes that a specialist wholesaler can give considerable aid to retailers who wish to increase their sales in the electric shaver market. Mr. Spencer will be operating at Flat 1, 46 Upper Grosvenor Street, London, W.1.

Procaine/Caffeine Combination. — F.B.A. Pharmaceuticals, Ltd., 37 Bedford Row, London, W.C.I, point out that considerable publicity is now being given in the lay Press to neural therapy, bringing numerous inquiries for a procaine/caffeine combination to relieve—virtually instantaneously—intolerably painful conditions. The original German product manufactured by Farbenfabriken Bayer, A.G., is obtainable in Great Britain (through Messrs. F.B.A.) as Procafin ampoules 2 and 5 mils, and as Depot-Procafin ampoules, 2 and 5 mils, all in packs of five. The company's publication "Procafin in Neural Therapy" is available on request.

Discontinued. — BIOMETICA, LTD., Elstree Way, Boreham Wood, Herts, state that, owing to the difficulty in obtaining bottles for the two products, they have discontinued issuing Pinaud extrait vegetal violettes des bois and extrait vegetal lilas de France. It is intended to issue both items in 8-oz. round bottles, as used for eau de Quinine, etc.—PARKE, DAVIS & Co., LTD., Staines Road, Hounslow, Middlesex, have discontinued issuing Chloretone and belladonna compound capsules (veterinary) bottle of 100; morphine sulphate hypodermic tablets. gr. ¼, bottle of 100; and parathyroid and calcium tablets (CT 583), bottle of twenty-five. Stocks are exhausted.

Liver Extracts.—Inquiries for the Megalon liver extracts (crude and refined injectable in bulk, ampoules and vials; oral tonics and concentrated pastes for oral preparations) manufac-





REPACKAGED: The new packs, now in distribution, for Sebbix liquid and cream shampoos. Manufacturers are Genatosan, Ltd., Loughborough, Leics. Heavier Press and TV advertising is booked.

turers of which are Antigen, Ltd., Roscrea, Republic of Ireland, should be sent to Antigen, Ltd., 67 High Street. Bexley, Kent.

German Oil Pitch.—Arnold Kuschel, 26, Bergstrasse, Hamburg, 1, Germany, invite inquiries for "tall oil" pitch (sulphate pitch/resin pitch) of German origin, available at prices described as "favourable."

Perfumery Trade Magazine. — The Fragrance Bureau, Ltd., 44 Albemarle Street, London, W.1, invite subscriptions for a new magazine Fragrance Fashion, designed to interest and educate sales staffs in the art of selling perfume and perfumery products. The magazine is to appear every two months.

Motivation Research.—Originally the research department of a large advertising agency and now an independent, self-contained, fully equipped organisation, Marplan, Ltd., 2 Cursitor Street, London, E.C.4, are offering to undertake motivation, marketing, product, advertising and public-relations research for all sections of industry. Among the studies the organisation has already undertaken has been one to ascertain the possible effects of a label modification on a leading pharmaceutical product.

Colours for Cosmetics.—A link between two of the oldest manufacturers of dyestuffs, finc colours and chemicals—Williams (Hounslow), Ltd., Hounslow, Middlesex, and Sun Chemical Corporation, New York City, New York, U.S.A.—has been forged in the formation of a joint company to be known as Williams Ansbacher, Ltd. The new company is to manufacture at Hounslow the high-quality colours for cosmetics for which the Ansbacher Siegle Corporation (a division of the Sun Chemical Corporation) has gained a considerable reputation.

Aid With Technical Literature. — A service operated by Technivision. Ltd., Braywick House, nr. Maidenhead, Berks, under which the company undertakes the production of scientific and technical literature from initial planning to final realisation, and the design of visual aids for instruction and

demonstrating purposes, is being extended to the pharmaceutical and biochemical fields. The department is under the control of Mr. Gordon Hyde, an author and former research worker with special knowledge of the pharmaceutical industry. The organisation also employs illustrators experienced in the production of medical illustrations and in the visual interpretation of scientific data.

Trade Display. — Cavalcade Beauty Preparations, Ltd., M. & R. Norton, Ltd., and Marcel Franck & Co. (London), Ltd., Adriant Works, Park Hill, London, S.W.4, displayed their ranges of Christmas presentations in perfumery, toilet preparations and soaps at a trade review in London, recently. Messrs. Norton emphasised the colourful packs by Gahns of Sweden and also introduced, in Christmas wrappers, the three sizes of Lacpinin balsam bath essence by Wolo, A.G., Switzerland, plus a new pack: a l-litre can. Another new product shown was Neutrogena tooth-paste which, with a pH 7.5, is claimed to retard tooth decay. Additions to the Marcel Franck scent spray range included two in Waterford glass.

Bonus Offers

BRITISH COD-LIVER OILS (HULL AND GRIMSBY), LTD., St. Andrew's Dock, Hull. Azymil. A 5s. bonus on each of two counter display units containing respectively twelve 30-capsule packets and six 60-capsule packets.

Burroughs Wellcome & Co., 183 Euston Road, London, N.W.I. Vasylox nasal spray and solution. Thirteen to doz. on order for 3 doz.; fourteen to doz. on order for 6 doz.

WILLIAM R. WARNER & Co., LTD., Eastleigh, Hants. Veganin, extra 5 per cent. plus 10 per cent. on each of four parcels (A: 72 x 10, 48 x 20, 24 x 50. B: 72 x 10; C: 72 x 20; and D: 36 x 50). Orders accepted from September 15, but no parcels supplied before October 1. Offer closes October 31.

VITAMINS, LTD., Upper Mall, London, W.6. Bemax. Special terms (given on another page) on orders for five standard parcels.

NEW PRODUCTS AND PACKS

Hand-lotion "Pillows."—Utility Services ((Mini-Emeri), Ltd.), 81 Grosvenor Street, London, W.1, are marketing in this country an American product Balm Argenta hand-lotion "pillows." The product has been on general sale since September 16.

Confectionery Specialities. — M. A. Craven & Son, Ltd., York, launched early in September two new confectionery specialities: Blackcurrant pastilles and mint imperials, each in \(\frac{1}{4}\)-lb. cartons. A wax bag protects the freshness of the contents.

Vacuum-tin Pack. — F. W. Hampshire & Co., Ltd., Sunnydale, Derby, have made their Zubes medicated products (for coughs, colds, sore throats and catarrh) available in an "easy-to-open" vacuum tin. For display purposes the Zubes tins are available in a help-yourself "dispenser."

"Party" Pants for Baby.—Kleinert Rubber Co., Walpole House, 91 New Bond Street, London, W.1, are marketing, for babies, "Cinderella" nylon pants with frills threaded with silver "lurex." Plastic lined and easy to wash, the pants are in white only, in four sizes.

A New Hair Shade.—Steiner, Ltd., Steiner House, Grosvenor Street, London, W.1, are marketing what they describe as the "loveliest of all" shades in Starmist hair spray: Hot Chestnut. Hot Chestnut is a "warm, deep, emotional" shade stated to suit all shades of hair from reddish-blonde to dark brown. It is available in boudoir and handbag sizes.

A Pack for the Handbag.—Dixor, Ltd., St. Leonard's Works, Mortlake, London, S.W.14, are marketing their Velouty powder cream in an additional pack: a plastic handbag "pot," which is available in seven Velouty shades: Ivory, natural, peach, rachel, apricot, "sungold" and ochre. Each shade is issued in a plain outer containing 1 doz.

A New Range of Toiletries. — H. Bronnley & Co., Ltd., Warple Way, London, W.3, have launched a new series of toilet preparations, "Charms," a range of products "linked by a lovely new fragrance." "Charms" is described as a "warm, deep scent in which an exotic note is mingled with the cool, fresh bouquet of an English flower garden." The range comprises soap (three tablets in box), talcum powder, toilet water, bath cubes (six double tablets), dusting powder, hand lotion and perfume.

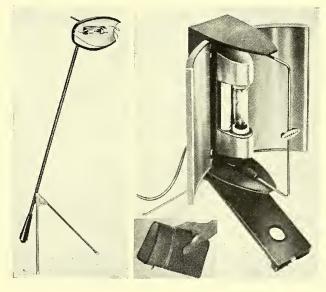
Piglet-anaemia Injection. — The Crown Chemical Co., Ltd., Lamberhurst, Kent, are introducing a new piglet-anaemia injection, improved Pygmia, based on an iron-protein complex understood to be the outcome of over five years' research aimed at discovering a more "natural" iron so as to increase the rate of utilisation and eliminate the possibility of "shock" effects. In the product as marketed vitamin B₁₂ is combined with the iron-protein complex so as to stimulate natural haemoglobin production and increase growth rates. The product is issued in a 12-dose vial.

Warble-fly Control.—Dow Agrochemicals, Ltd., 48 Charles Street, London, W.1, announce the introduction to the British market of a new drug on promise in the eradication of the warble-fly pest of cattle. They point out that dressing cattle with derris three times between March and May each year, as required under the Warble Fly (Dressing of Cattle) Order, 1948, is costly in labour and not now always done. The number of hides estimated to bear warble damage is put at 25 per cent. and, since the derris treatment is given to infested animals only, the damage has already been done by the larvae. The new drug, Etrolene, is a systemic compound. It is administered as a drench or drink or as a bolus or pill. For experimental use a second compound, Ruelene, is being made available as a spray. Both products have systemic action, and the cattle need only one dose of the product in a year, given between September 1 and the end of November (when the larvæ in the animals are still small and before they reach the backs and damage meat or hides). It is under-stood that Etrolene has proved effective in the dosing of over 4 million cattle in America and Canada, and in experiments on 650 animals in Great Britain during the past twelve months. Chemically, Etrolene is 0,0-dimethyl phosphorothioate, and Ruelene 4-tert-butyl-2-chlorophenylmethyl-phosphoramidate. After oral administration the drug is absorbed into the blood from the gastrointestinal tract, contacting the grub larvæ in the tissues. It was developed in America by the Dow Chemical Co., and small quantities were imported into Great Britain as Dow-Et-57, by agricultural research institutes two years ago. The results of those tests are stated to have been satisfactory. In all cases dosage is according to live weight (for example, one bolus or pill for each 300 lb. of live weight of the beast). When Etrolene is used as a wettable powder for a drench, 1 lb. is dissolved in 1 quart of water and dosed

at the rate of 3 fl. oz. per 300 lb. of live weight. With Ruelene used as a systemic spray, a pressure of 150 lb. per sq. in. is needed; it may be provided by an orchard sprayer. Preliminary studies have also shown that Ruelene has anthelmintic value when administered as a single oral treatment. When Etrolene is given to beef cattle, sixty days should elapse before slaughter of beef cattle after treatment with the product, and lactating cows should not be treated with it. In terms of toxicity it is seven times as safe as DDT and about equal to malathion in toxicity.

New Sunlamps. — Two new, low-priced lamps—the Bikini and the Bahama—have been introduced by Hanovia, Ltd., Bath Road, Slough, Bucks. They are available without a doctor's certificate. The Bikini is a stand version, and the Bahama a compact table model. By clever designing without loss of technical efficiency the without loss of technical efficiency the new lamps are offered inclusive of tax yet at an attractive price. The Bahama table model radiates full-spectrum ultra-violet and infra-red, simultaneously only. It comes complete with a matching carrying case with a zip opening and containing goggles and supply flex. The model opens for treatment purposes and closes to a compact handbag size. It is finished in two tones of Carribean blue. The Bikini stand model, for divan or bedside use, is finished in eau de nil and atoll green. Messrs. Hanovia point out that they produced, in 1927 the first effective domestic sun-lamp. During the 1939-45 war no allocation of material was made for Homesun lamps, but the company continued to manufacture, for home treatment, a small portable ultra-violet lamp that could be obtained under a licence from the Board of Trade by people who could prove a genuine medical need. The model was known as the "Prescription" lamp. In the immediate post-war years demand exceeded supply. The Customs and Excise authorities waived purchase tax on sales to people producing a medical certificate. Many people who would

like to buy a lamp suffer from no specific illness and do not feel justified in going to their doctor for the necessary certificate. Now anyone who feels that he needs a sun-lamp may walk into a shop and buy a Hanovia model without any furformalities, ther the demand for a medical certificate having come entirely from the taxation authorities,



The Bikini stand model and Bahama table model of a new sun-lamp launched by Hanovia, Ltd., Slough.

LEGAL REPORTS

Claimed to be Veterinary Surgeon Alleged to have represented himself as a veterinary surgeon, and to have signed a poisons register at a chemist's shop in Penny Street, Lancaster, during March, after being served with tubes of intramammary penicillin injection for treating cattle, William Astbury Thomas, commercial representative and agent, Lancaster, was fined £20, plus costs of £3 12s. 6d. by Lancaster city magistrates recently. Thomas admitted that he bought the tubes, but said he was not aware there was any legal control over the retail sale of them. He denied he represented himself as a veterinary surgeon so that he could obtain the tubes for resale to farmers.

Pyrethrum Litigation

JUDGMENT for the Pyrethrum Board of Kenya was given in the Supreme Court of Nairobi on August 28 in a test case brought against the Board by East African Extract Corporation, Ltd. Justice Miles awarded costs to the Pyrethrum Board. The case, which was heard in June, lasted nine days. East African Extract Corporation, Ltd., claimed damages in a dispute as to the correct method of sampling pyrethrum flowers delivered by the Pyrethrum Board to the Corporation. The Corporation had alleged that £25,675 had been overpaid on the first 500 tons of pyrethrum supplied by the Board against a contract which called for the delivery of about 5,800 tons of pyrethrum between January 1, 1958, and June 30, 1961. In his 34-p. judgment, Mr. Justice Miles said that the evidence pointed to the overwhelming probability that the Board's hand sampling method was accurate and that the Corporation's sampling machine, which showed a variation over the material period of some 14 per cent. must be inaccurate.

COMPANY NEWS

ARMOUR PHARMACEUTICAL CO., LTD.—Mr. Gary F. Smitskamp (Armour Pharmaceutical Co., Chicago, U.S.A.), has been appointed managing director in charge of the company's operations in Eastbourne, He will take up his dutics on November 1.

ASPRO-NICHOLAS, LTD. —First quarterly report on trading results for the three months ended June 30, continued to be satisfactory, states the chairman (Mr. M. A. Nicholas). The group is beginning to see the benefits of its recent acquisitions of Clinical Products, Ltd., and Askit, Ltd., and in anticipation of increased earnings a first interim dividend of 6½ per cent. is declared. Mr. W. J. Lloyd, an executive director for the past five years is leaving the service of the company this month to take up another appointment.

New Companies

P.C. = Private Company; R.O. = Registered Office

KIRTON & SON, LTD. (P.C.).— Capital £3,000. To carry on the business of chemists, etc. Directors: Stanley T. Kirton, M.P.S., and Marian B. Kirton. R.O.: 52 Savile Street, Hull. VALE PHARMACY, LTD. (P.C.).—Capital £100. To carry on the business of chemists, druggists, dispensers, etc. Directors: Norman Auerbach, M.P.S., and Sonia Auerbach. R.O.: 246 Middleton Road, Manchester, 8.

J. J. TAYLOR (CHEMISTS), LTD. (P.C.).—Capital £5,000. To carry on the business of manufacturing and retail chemists and druggists, etc. Directors: John J. Taylor and Madeline J. Taylor, 6 Dorset Road, London, S.W.19.

NEARSGRANT, LTD. (P.C.).—Capital £100. To carry on the business of chemists, etc. Subscribers: Jean Herbert and Thomas A. Herbert, barrister, 156 Strand, London, W.C.2. The first directors are to be appointed by the subscribers. First directors not named.

ROBERT E. PEARCE (CLIFF ROAD), LTD. (P.C.).—Capital £5,000. To carry on the business of wholesale or retail chemists, etc. Directors: Thomas M. P. Elford, M.P.S., and Thomas R. Elford, M.P.S., R.O.: 2 Cliff Road, Newquay, Cornwall.

N. A. EXELBY, LTD. (P.C.).—Capital £1,500. To carry on the business of dispensing chemists, etc. Directors: Norman A. Exelby, M.P.S., Alfred S. Exelby, M.P.S., and Kenneth A. Exelby. R.O.: 1 Wembley Hill Road, Wembley, Middlesex.

JENTON PRODUCTS, LTD. (P.C.).—Capital £1,000. To carry on the business of manufacturing chemists, etc. Directors: Thomas F. Jennings and Charles A. Etherington. R.O.: 31 Range Road, Whalley Range, Manchester, 16.

VITAMIN SUPPLIES, PTY. (U.K.)., LTD. (P.C.).—Capital £2,500. To carry on the business of supplying, buying and selling health foods, vitamin tablets and capsules, etc. Subscribers: Nelson R. Cooke and Margaret L. Cooke, 16c Castelnau, Barnes, London, S.W.13.

INRAGO, LTD. (P.C.). — Capital £100. To carry on the business of wholesale and retail chemists, druggists, etc. Subscribers: Jean Herbert and Thomas A. Herbert, barrister, 156 Strand, London, W.C.2. The first directors are to be appointed by the subscribers.

BRITISH PATENT PERFORATED PAPER CO., LTD. (P.C.).—Capital £100. To carry on the business of manufacturers of and dealers in toilet paper, etc. Subscribers: William B. Dixon, Little Garth, Healing, Grimsby, and Peter J. Dixon, Clothall House, nr. Baldock, Herts.

ANGLO-FRANCAISE PHARMA-CIES, LTD. (P.C.).—Capital £500. To carry on the business of manufacture and general chemists, etc. Directors: Joseph S. Minns and Nina Minns, M.P.S., 480 Church Road, Northolt, Greenford, Middlesex, Eli Silver and Miriam Silver.

BRACEY BARING (CHEMICAL DEVELOPMENTS), LTD. (P.C.).—Capital £100. To carry on the business of dealers in and manufacturers of residual herbicides, weedkillers, fertilisers, etc. Directors: Paul Bracey and Simon A. V. Baring. R.O.: The Cottage, Hunton, Sutton Scotney, Hants.

PORTLAND DISTRIBUTORS, LTD. (P.C.).—Capital £100. To carry on the business of inanufacturing, dispensing and analytical chemists, etc. Subscribers: A. Storrey and D. Dexter. The first directors are not named. R.O.: Marlborough House, la Cranmer Street, Nottingham.

CHEMALKI, LTD. (P.C.).—Capital £300. To carry on the business of manufacturers, importers, exporters and distributors of crude chemical products, chemicals, etc. Directors: Stewart Champion and Alec S. Bates. R.O.: Trinity Works, Trinity Street, Stalybridge, Ches.

D. IVEL REES, LTD. (P.C.).—Capital £2,000. To acquire the business of chemists carried on by Donald I. Rees at Wotton under Edge and Chipping Sodbury; and to carry on the business of chemists, druggists, etc. Directors: Donald I. Rees, M.P.S., and Beatrice M. Rees.

H. NICHOLLS & CO. (CHEMICALS), LTD. (P.C.).—Capital £2,000. To carry on the business of merchants of and dealers in industrial chemicals and coal tar products, etc. Directors: Herbert Nicholls, Lily Nicholls, Shirley Nicholls and Barry Nicholls, R.O.: 71 Barton Road, Worsley, Manchester.

STRATA-FLO, LTD. (P.C.).—Capital £1,000. To carry on the business of manufacturers of and dealers in chemicals, gases, drugs, medicines, etc. Directors: Michael G. Hope, Frederick G. Lambert, James F. Welton and Denis S. Gerrish. R.O.: 107 Bedfont Lane, Feltham, Middlesex.

HAROLD WILLIAMS (CHEMISTS), LTD. (P.C.).—Capital £10,000. To acquire the business of a pharmaceutical chemist carried on by Ernest H. Williams, F.P.S., at 41 Wigan Road, Ashton-in-Makerfield, Lancs. Directors: Ernest H. Williams and Mary E. Williams.

EUSINESS CHANGES

WATTS CHEMICALS, LTD., are moving to Friendly House, 24 Chiswell Street, London, E.C.1, on September 21 (telephone: Monarch 2642).

G. T. W. NEWSHOLME, LTD., are removing shortly to Castle Market building, Exchange Street, Sheffield (from 27 High Street).

MR. A. R. VALENTINE, M.P.S., has acquired the pharmacy of Anderson & Virgo, The Foregate, Worcester, from Mr. D. T. Jones, M.P.S.

THE business partnership trading as Barbara B. Watson, chemists and druggists, Main Street, Balerno, Edinburgh, has been dissolved by the retiral of one of the partners (Miss Margaret Watson). The business is being continued by the remaining partner, Mrs. Agnes Henry, M.P.S., under the name of Agnes H. Henry.

ASTRAPHARM-HEWLETT, newest member of the world-wide Astra group, has been formed by the unification of Astrapharm, Ltd. (British subsidiary of Astra, Sweden) and the old-established British company of C. J. Hewlett & Son, Ltd. The organisation is to introduce drugs developed by the Astra research laboratories to the British mar-

ket, the first preparations are expected to be available by mid-October.

ARENCO, A. B., Sweden, and ALITE MACHINES, LTD., Great Britain, have created a common company under the title Arenco-Alite, Ltd., with offices and showrooms at Pexmore Avenue, Letchworth, Herts.

NEW premises for the group headquarters of Smith & Nephew Associated Companies, Ltd., have been acquired at Temple Place, Victoria Embankment, London, W.C.2, and it is proposed to transfer the registered offices of the parent company to the new address towards the end of the year.

Appointments

LONDON RUBBER CO., LTD., Hall Lane, Chingford, London, E.4, have appointed Mr. W. Duncan James their representative in the East Riding and South-east area of the West Riding of Yorkshire.

DUNLOP RUBBER CO., LTD., have occupied new offices at 23 King Street, London, S.W.1. The offices, built on the site formerly occupied by the St. James's Theatre, have been named St. James's House. The company's head office, St. James's House, 25 Ryder Street, London, S.W.1, has been renamed Dunlop House.

RIKER LABORATORIES, LTD., Morley Street, Loughborough, Leics, have appointed Messrs. Frank A. Mackey and Jack H. Palmer overseas representatives. Mr. Mackey is covering the Caribbean area and Mr. Palmer is taking over the South-east Asia area working in Singapore, Malaya, Ceylon, Burma and Hong Kong.

MARRIAGES

ORME—DAVIES. — At Hall Royd Methodist Church, Shipley, Yorks, on September 12, Robert David Orme, M.P.S., Cromwell Road, South Kensington, London, S.W.5, to Jean Davies, Shipley.

O'BRIAIN — WOODS. — At St. Andrew's Church, Westland Row, Dublin, Eire, on September 2, Padraig S. O'Briain, M.P.S.I., 12 Warrington Place, Dublin, to Maisie Woods, Ph.C., 111 Lower Bagot Street, Dublin. The bridegroom is inspector and liaison officer for the Pharmaceutical Society of Ireland. The ceremony was performed by his cousin, Rev. Fr. O'Brien.

DEATHS

HEILBRON.—On September 14, Professor Sir Ian Morris Heilbron, D.S.O., F.R.S. After holding the chair of organic chemistry in Liverpool and Manchester and at the Imperial College of Science and Technology, Professor Heilbron became the first director of the Brewing Industry Research Foundation in 1949. He was appointed a member of the Advisory Council on Scientific Research and Development, Ministry of Supply, in 1958. From a research point of view his most notable contributions were probably to the chemistry of the vitamins A and D and the penicillins. In delivering the ninth Pope memorial lecture at the

Royal Society of Arts on May 14, 1958 (C. & D., May 31, 1958, p. 592), Sir Ian discussed the "Expanding Horizons in Organic Chemistry."

KASSNER.—On September 5, Mrs. Elsie Kassner (née Woodward), F.P.S., F.R.I.C., 90 Greenhill, London, N.W.3. Mrs. Kassner qualified in 1918.

MAWER.—At his home on September 9, Mr. George Robert Knox Mawer, M.P.S., 100 Norman Road, Wrexham, Denbighs. Mr. Knox Mawer was president of the Pharmaceutical Society, 1946-47. Born in Boston, Lincs, in 1889, he qualified in 1910 after an apprenticeship served with his uncle in London. He gained experience in Manchester, Stockport and North Wales before becoming associated with L. Rowland & Co., Ltd., Wrexham, in 1914, rising to managing director in 1928. Mr. Knox Mawer was co-opted to the Council of the Society in 1937 and successfully stood for election in 1944. He had numerous masonic, educational and sporting interests in North Wales.

ROBERTS.—On August 22, Mr. Llewelyn Roberts, M.P.S., Medical Hall, Blaenau Festiniog, Merioneths. Mr. Roberts qualified in 1921.

SHADFORTH. — On September 8, Mr. William Shadforth, F.P.S., Ducks

Hill Grange,
Northwood,
Middlesex, Before he qualified in 1900,
Mr. Shadforth
was a theological student at
the New College, London.
He bought the
business owned
by Mr. Hudson,
6 3 G r o v e
R o a d, B o w,
London, E.3,

in

1904

and

later formed the limited company that bears his name and of which his son Mr. Marcus W. Shadforth, M.A., B.Pharm., F.P.S., is a director.

WASDELL.—On September 5, Miss Sarah Wasdell, M.P.S., Bara House, High Street, Quarry Bank, Brierley Hill, Staffs. Miss Wasdell qualified in 1920.

WEBB.—On August 28, Mr. James Thomas Webb, M.P.S., 7 Farm Lane, Oakhill College, London, N.14, Mr. Webb qualified in 1901.

PERSONALITIES

MR. N. R. HAZZLEWOOD, M.P.S., Ridgeway Road, Sheffield, 12, in a letter to the Sheffield Telegraph recently, compared the increased costs of various branches of the National Health Service. The figures he gave were:—Pharmaceutical services, approximately 3 per cent.; medical 4 per cent.; ophthalmic 4½ per cent.; and administration, 40 per cent., over twelve months. The letter was headed "Drug Bill Theory Exploded."

MR. L. A. WOODHEAD, the president, 1959-60, of the Scientific Instrument Manufacturers' Association of Great Britain, is a director and the

general manager of Cossor Instruments, Ltd., and has been closely connected with the electronics industry for over forty-two years. He joined Messrs. Cossor, Ltd., in 1930, on the radio side, and subsequently became chief of test for valves and cathode-ray tubes at a new shadow factory. In 1943 he was appointed chief engineer of a Ministry of Information unit operated by the company. He has devoted himself to the interests of the British scientific-instrument industry; and at various times has been chairman of its electronic section, of its export committee, its honorary secretary and its vice-president.

DR. F. L. ROSE, O.B.E., F.R.S., an associate research manager in the phar-

maceuticals division of Imperial Chemical Industries, Ltd., has been appointed honorary reader in organic chemistry, University of Manchester, in the faculty of technology. Dr. Rose, after obtaining a First in Chemistry in 1930 at the former Univers



ity College of Nottingham, was engaged there on a period of research under Professor F. S. Kipping, F.R.S. (the "father" of silicone chemistry) which led to a Ph.D. He joined I.C.I. at Blackley, Manchester, as a member of the azo dyestuffs section, research department, and was seconded in 1936 to the small newly formed medicinal chemical section, of which he became section head in 1942. The years that followed saw a big expansion of the medicinals effort and in 1954, with the creation of a separate pharmaceuticals division, Dr. Rose became research manager responsible for the chemical group of the research department. In 1949 he gained the first D.Sc. awarded by the University of Nottingham after the grant of its Charter, and in the same year received the O.B.E. for his wartime research on antimalarials. He was elected a Fellow of the Royal Society in 1957. Dr. Rose is the author of over seventy scientific papers, and has been closely associated with the synthesis of a number of well-known drugs.

DR. K. S. DODDS (director of the John Innes Horticultural Institute, Hertford, and formerly professor of botany, Trinidad Imperial College of Tropical Agriculture) is shortly leaving with DR. GRAHAM PAXMAN on an expedition through South American countries to investigate the hereditary characteristics of the "golden" potato, ancestor of the modern cultivated potato. The "golden" potato grows on the lower Andean slopes, has a chromosome number of twelve (half that of the cultivated potato); a yellow pleasanter-tasting flesh; and is small and knobbly. Dr. Dodd's reports are designed for the Ministry of Agriculture. It is anticipated they will be of value in the development of the British varieties.

Correspondence

Letters when received must bear the name and address of the sender, not necessarily for publication. The Editor does not hold himself responsible for the views expressed.

A Few Years Out

SIR,—Although Edinburgh prides herself on her antiquities, and on the longevity of her inhabitants, I should not like your readers to think that Dr. Hamilton was still making his rounds in a sedan chair in 1930. In the article on Baildon's that should have read 1830. For the record I would also like to mention that the Royal Dispensary was opened by Duncan in 1776, not 1726 as stated.

> C. G. Drummond, Edinburgh, 1

Basic N.H.S. Prices

SIR,—The rejoinder of E. C. Tenner (C. & D., September 12, p. 180) to my previous letter repeats the charge that manufacturers are ignoring the "recent" advice of the Hinchliffe Committee that retail prices should be given in literature to doctors. That advice appeared in the Committee's interim report dated May 1958. In its final report, however, published in May this year, the Committee, which had been informed of the reasons for quoting basic N.H.S. prices to doctors—made no reference to "retail" prices. It is reasonable to assume, therefore, that the Committee had, in the interval between its interim and final reports, accepted the views of the industry. That is borne out by the concluding sentence of paragraph 207 of the final report, which reads:

"We are glad to hear that increasing numbers of drug manufacturers are cooperating by giving prices in their literature and that the Association of British Pharmaceutical Industry has encouraged them to do so."

Your contributor denies my contention that many medical specialities do not bear a retail price. In fact, there are hundreds of packs—notably dispensing packs—for which only trade prices are given. There is nothing "fresh" given. There is nothing "fresh" about a policy of not setting a retail price for a product or pack not intended for retail sale.

A. DUCKWORTH, Secretary, Association of British Pharmaceutical Industry

Disputed Points

SIR,—To answer E. C. Tenner's unthinking support (C. & D., September 12, p. 180) of the Council's recently issued statement would take a much longer letter than I would care to take the trouble to write. The statement can be attacked on so many grounds—legal, constitutional and professional. There are four points in his contribution about which I would like to comment, however. I do not think he assists acceptance of the Council's advice when he refers to those pharmacists who disagree as "pharmaceutical spivs." Any thinking pharmacist can be in no doubt about what the Council can do to those who do not follow their advice. The Council can do nothing effective. It would seem that if E. C. Tenner organised his shop in accordance with Section 8 of the Pharmacy Act it would not be necessary for him to make special arrangements for requests for those drugs to be referred to him. Finally, does he really believe that it is appropriate for a chemist to discuss "character changes" with customers?

C. Lonsdale, Stalbridge, Dorset

SIR,—Re the statement of the Pharmaceutical Society (C. & D., August 22, p. 80) one point always seems to be overlooked. A chemist receives oceans of literature through the post, and every C. & D. and P. J. he picks up informs him how safe a drug is, how free from addiction and side-effects, and even how people with weak hearts, blood-pressure and kidney trouble can take it with perfect safety. He then proceeds to sell it to his customers telling them how safe it is, etc. Then all of a sudden he has to tell them the drug he has been supplying is now dangerous and habit forming, the exact opposite to what he has been telling them for years. It's all very well for the Pharmaceutical Society to change with the wind, but when you are facing the public day after day it is not so easy. Another case—a drug was given the O.K. as above for the removal of fear and apprehension (dentist's chair, etc.). Then, because a drunk (soaked in gin and whisky) bought some and took a lot and had an accident, and a few little toughs bought some and did a stick-up with flick knives, the chemist must withhold it from everyone. Whisky and gin are still obtainable, neither the man's car nor his driving licence are taken away, a little tough can still buy flick knives, but the chemist cannot use his discretion to sell the drug to people who could do with it before going to the dentist. I think the chemist must use his discretion (one of the few things he has left) and leave the Society on the clouds where it spends most of its existence. I read in the Journal this week that once more the Society's policy (as on education) has been wise and far-sighted. The Council's policy may be far-sighted, but I do not feel I shall live long enough to see its fruition, and meanwhile my rent and rates want paying now. While the National Pharmaceutical Union was trying hard to push the C.F. scheme, the C. & D. and P. J. regularly advertised firms that were not C.F. If we had asked why, we would have been told that it was an economic necessity, and that without it the two papers could not have been produced weekly. The same wolf barks at the door of the average pharmacy.

H. G. A. CRIPPS, Hitchin
[*Not now legally.—EDITOR.[

Double Yolk?

SIR,—I would like to add my appreciation of the Extra Special summer number of THE CHEMIST AND DRUGGIST to the many that I feel sure you must have received. It is a monument to your successful surmounting of the many difficulties that beset you and I should think it is almost unique amongst your

many issues. There is a noteworthy absence of the many usual features, such as reports of depressing Council meetings, police court cases, and deaths, which might distract the hungry reader's attention from the meaty re-past awaiting him, and which this splendid literary production provides. To an old-fashioned chemist and druggist its comparative freedom from references to any of the new para-symp-tomo - mesmeric chemo - therapeutic agents endows it with an added charm! In fact, I feel sure that your phænical fowl on this special occasion has produced an egg with a double yolk. **OBSERVATOR**

APPROVED NAMES

A Supplementary List

following supplementary list of y the

THE follow		ρf			
	nes has been issued by the				
	nacopæia Commission:—	_			
APPROVED	OTHER NAMES				
Name	OTHER TAMES				
Ambutonium	(3-Carbamoyl-3: 3-diphenyl	1-			
bromide	propyl)ethyldimethyl-				
oromido	ammonium bromide				
Chlorthenox-	2-2'-Chloroethyl-2:3-				
azin	dihydro-4-oxobenz-1:3-				
(LZIII	oxazine				
Diamthazole	6-2'-Diethylaminoethoxy-2-				
Diminutoic	dimethylamino-benzo-				
	thiazole				
	Asterol is the dihydro-				
	chloride				
Diethyltolu-	NN-Diethyl-m-toluamide				
amide	1414-Bictifyi-m-toldamide				
Dodicin	2:5:8-Triazaeicosane-1-				
Doulein	carboxylic acid Dodecy	.1			
	di(aminoethyl)glycine	1-			
Ethionamide	2-Ethylisonicotinthioamide				
Flumethiazide	7-Sulphamoyl-6-trifluoro-				
Plumetmazide	methylbenzo-1:2:4-thia-				
	diazine 1:1-dioxide				
Guaiphenesin					
Guarphenesin	3-o-Methoxyphenoxypro-				
	pane-1:2-diol Guaiacol				
Haloperidol	Respenyl				
Haloperidoi	4-p-Chlorophenyl-1-(3-p-				
	fluorobenzoylpropyl)-				
Kanamycin	piperidin-4-ol An antibiotic produced b				
Kanamychi	Streptomyces kanamycet				
	cus	ι-			
	Kantrex				
Metahex-					
amide	1-(3-Amino-4-methylben- zenesulphonyl)-3-cyclo-				
annue	hexylurea				
	Euglycin; Melanex				
Metformin	N ¹ N ¹ -Dimethyldiguanide				
Methaqualone	2-Methyl-3-o-tolyl-4-quina-				
Methaqualone	zolone				
	Melsedin is the hydro-				
	chloride				
Methazol-	5-Acetylimino-4-methyl-2-				
amide	sulphamoyl-1:3:4-thia-				
annuc	diazoline				
	Neptazane				
Phenformin	N ¹ -Phenethyldiguanide				
i nemornim	D.B.I.				
Propyl	Propyl 3-diacetylamino-				
docetrizoate	2:4:6-tri-iodobenzoate				
doceuizoate					
Proxyphylline	7-2'-Hydroxypropyltheo-				

Sulphasomizole Thioridazine

phylline Brontyl 5-p-Aminobenzenesulphon-

amido-3-methylisothiazole 10-[2-(1-Methyl-2-piperidyl)ethyl]-2-methylthiophenothiazine

Melleril is the hydrochloride

PRIZE-WINNING AMERICAN PACKS

Best folding cartons — from thousands

"IT is apparent that most United States manufacturers now have two prime goals in packaging," said one of the judges of the 1959 folding carton competition, sponsored by the Folding Paper Box Association of America, as he summed up the trends. "First, to improve the appearance of their package of their aging while maintaining or improving the quality of their products. Second, to pull down the rising cost curve by finding a satisfactory package, at lower cost, that will increase the efficiency of the manufacturing operation." The trend to the use of multiple colours,

he concluded, continued in all fields.

That trend to the increased use of colour was specially noticeable in the "medicinal products" and "cosmetics and personal accessories" categories of the contest which, as usual, drew thousands of entries sands of entries.

Shown here are eight of the award winners.

1. A new graphic design by the art department of the Upjohn Co., for their Unicap 250's resulted in a carton with "a lot of merchandising power." The design incorporates a four-colour reproduction of a stoppered bottle to give

visual impact to a neat, "ethical," package. Product identification appears on five panels of the box. Messrs. Upjohn also won an award in the "best dis-play" class. Seven display cartons (see 7) while bearing similarities in construction and design to each other were all different. Uniformity of effectiveness was the basis of the award. Some of the display cartons were in three colours (printed letterpress) the others in four colours (printed offset litho).

After many attempts at variation, Procter & Gamble Co. developed an effective package innovation for Prell











5







liquid shampoo, formerly in a metal tube or glass bottle and enclosed in standard cartons. In selecting the box (2) for an award the judges particularly noted the showcase effect achieved without the use of a film window. The plastic tube of Prell is clearly visible and foil inside illuminates the tube from the rear—"adding lustre to an already outstanding carton."

Three brands of vitamin tablets by Mead, Johnson & Co. have now been effectively and economically packaged in "staright" tuck cartons. Each has six cut-outs in the front panel to hold the product securely. The cartons provide adequate space for the brand names, Deca-Vi-Sol, Tri-Vi-Sol, and Poly-Vi-Sol (shown in 3), and for informative copy. The construction design includes a throw-away sleeve for product protection. Four colours by letterpress was the printing formula.

A "merchandising superiority" award went to the Pitman-Moore Co. division of Allied Laboratories, Inc., for the display carton of Novahistine (4). It provides adequate protection in transit as well as being an attractive counter unit. "Eye-appeal" has been obtained through careful colour selection and continuity of graphic design on individual cartons and display containers.

Packs for the Spring Fancy perfume and eau de Cologne by Prince Matchabelli, Inc. (5) gained the admiration of the judges because of the "delightful surface design" and induced them to give it an award for "merchandising power." The elegant simplicity of the cartons, along with the delicate "lace" borders and the colourful approach of the graphic presentation was "like a real breath of spring." The cartons were printed in four colours by letterpress.

A carton of sterile cotton-wool balls (6) won a first award for "general merchandising superiority." It was made for Johnson & Johnson, Co. "Eye-appeal" has been attained through the use of excellent graphic design: a white background and crisp use of colour giving a feeling of feminine luxury while providing a "poster" style presentation for the reading matter. The carton, in fact, represents a switch from a conventional medicinal package to one of decided feminine appeal. It has been printed letterpress in four colours.

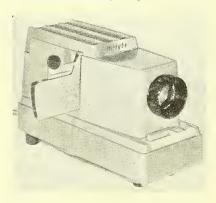
8. A display of Nupercainal lotion from Ciba Pharmaceutical Products, Inc., won an award for merchandising superiority on the bases of the excellence of its graphic design, fine process colour printing and sturdy construction. A dozen bottles of the product are held

by the unit.

PHOTOGRAPHIC NOTES

New Model Camera.—Kodak, Ltd., Kingsway, London, W.C.2, announce the launching of the Kodak Bantam "Colorsnap"-2 camera. Similar to the Kodak Bantam "Colorsnap," it accepts the Brownie flash-holder and carries a reference to Kodacolor film on the exposure guide.

Slide Projector.—A low-priced 35-mm. slide projector of extreme portability has been launched by the cine and photographic division of Rank Precision Industries, Ltd., 37 Mortimer



Street, London, W.1. The model, the Bell & Howell Hi-Lyte 707, is simple in operation. It is die-cast in high-quality alloy and includes a slide carrier, though the total weight is only 5½ lb. The projector has a hammer finish of blue and grey. A compact filament lamp provides high-intensity illumination with cool, white light for correct colour balance, and there is a specially computed, high-resolution, 4-in. lens providing sharp definition to the edges of the picture. A silent cooling system prevents overheating.

Photographic and Projector Lamps.

—The General Electric Co., Ltd., Magnet House, Kingsway, London, W.C.2. announce changes in the prices of Osram photographic and projector lamps for reasons of labour costs and changed demand. Some projector lamps in classes Al, B, F, G, S and FL, and controlled colour temperature lamps in class CP, are increased in

price. Others of the more popular types are unaffected.

Fully Automatic Projector.—Claimed the only projector on the market which is fully automatic, including detail focusing, the Paximat S electric has dual remote control that gives, at a touch of a button, automatic slide change. A second button operates the picture detail focusing attachment. The Paximat magazine takes transparency holders of all sizes, which are automatically selected by the slide-change device. Suppliers of the Paximat are Pullin Optical Co., Ltd., 93 New Cavendish Street, London, W.1.

A New Range of Flash-bulbs. — Philips Electrical, Ltd., Century House, Shaftesbury Avenue, London, W.C.2, announce the introduction of a new range of Photoflux flash-bulbs. The PF1 is in a new pack measuring approximately $2\frac{1}{4} \times 3\frac{1}{4} \times 1$ in. The PF5 is unchanged in light output and performance but for the first time in this country filled with zirconium metal, whose high efficiency enables the size of the bulb to be reduced to that of the PF1. Its pack uniform with that of the PF1, it is distinguished by a yellow stripe bearing the word "zirconium," the flash-bulbs by a yellow washer (as opposed to the red of the PF1). The PF1/97 has its light output raised by means of increased gas pressure filling to nearly double (7,500 lumen secs.) that of the old PF/97, again with no difference in price. In time the old PF5/97 is due to dis-

appear. Thus the range is reduced to three varieties of uniform size, all in the new "handy" pack.

Low-priced 35-mm. Camera. — A camera that should quickly prove its appeal is the Halina 35X (distributors: Street, London, W.C.1). It "looks right, feels right and is right"—both in the quality of the results it provides in black and white or colour and in style and finish, yet its price is modest. The Halina 35X has an all-metal body with satin chrome finish; a threeelement, f/3·5, 45-mm, hard-coated, colour-corrected lens, of Chance Bros. glass; shutter speeds of 1/25, 1/50, 1/100, 1/200 sec. and B; shutter synthesis 1/25 sec. chronised for flash-bulbs at 1/25 sec.; double-exposure prevention device; coupled film wind; and exposure counter. There are also an accessory shoe and depth-of-focus scale and all con-trols are visible from above. The camera takes cassettes. Focusing by rotation of lens barrel, is from 3 ft. to infinity. Under test the controls were found to come easily to the fingertips, and there is a satisfying weight in the 1 lb. 3 oz. of the camera without everready case (mainly of leather, with hard plastic top and lens cover). The captive retaining screw fits into the tripod bush. A shoulder strap is supplied. Film is loaded by turning a lock on the base of the camera and sliding off the back, which reveals the cassette chamber and take-up spool. Excellent colour transparencies were obtained, and b/w

negatives enlarged "enprint" size to were crisp and of good definition at all apertures. The Halina 35% is packed, with instruction booklet, in a bright, stiff carton in red, yellow and black. Range of accessories comprises lens hood, filter holder, 2x filter and extra lens for close-up work.



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SIXTH PACKAGING EXHIBITION

Largest-ever display of machines, materials and methods

THE sixth, and largest, international Packaging Exhibition, held at Olympia, London, September 8-18, attracted over 300 exhibitors, including thirty overseas manufacturers. Machinery, materials, containers, packages, treatments and point-of-sale display material were all featured. It was, perhaps, in machinery that most advances appeared to have been made—and the majority of the equipment was designed for the manufacturer handling large quantities. However, for the smaller manufacturer, and even for the retailer (particularly in regard to small package sealing materials and methods) a number of advances were to be seen. For example, on the stand of FLEXILE METAL CO., LTD., Bessemer Drive, Stevenage, Herts, was a prototype Flexicloser semi-automatic tube folding and crimping machine designed to meet the needs of the manufacturer with a small output. Twenty tubes per minute can be closed by an unskilled operator using the Flexicloser which takes tubes up to 1½ in. diameter and up to 7 in. length; minimum diameter ½ in.

Machinery

A number of Kilian tablet machines (Kilian & Co., G.m.b.H., Cologne, Germany) were shown by their sole U.K. distributors, Anglo Continental Machines, Ltd., 41 Dover Street, Piccadilly, London, W.1. Among them was the Kis-type machine for limited production where large outputs (as obtained by rotary machines) are not required. It may be used for tablets varying in size and composition. Charles E. Douglas, Ltd., 86 Strand, London, W.C.2, showed a number of acetate "blister" packs made on machines by Etablissements Charles Nicolle, France. Among the items so packaged were tablets, suppositories, and breadermic needles.

and hypodermic needles.

H. STRUNCK & Co., Cologne-Ehrenfeld, Germany (represented in Britain by Guest Industrials, Ltd., 81 Grace-church Street, London, E.C.3), introduced a sugar-coated-tablet printing machine with a high capacity. The sugar-coated tablets are fed into a hopper from where they are automatically brought into guides towards the printing device. The "clichés" are coloured by ink that has been distributed by changing rollers and the tablets are printed in rows by the offset method. The printed tablets are gathered automatically into a tray and are dried in the open or in rooms at moderate temperatures. If required an ink conforming to pharmaceutical industry standards can be supplied with the machine. Capacity of the machine is 60,000 per hour up to 130,000. It handles tablets from 5-15 mm. diameter.

Hassia Packaging Machines, Ltd. (Hassia-Verpackungsmaschinen, G.m.b.H., Germany), Victoria House, Southampton Row, London, W.C.1, showed a sachet-filling machine for use with powder and granular products. Fitted with volumetric feed the machine has an output of eighty to 130 packs

A new sponge applicator (for liquids and semi-liquids packed in tubes) introduced at the exhibition by H. G. Sanders & Son, Ltd., Southall, Middlesex.



a minute. The packs are formed from heat-sealing materials, filled, sealed and cut off by the machine. The length of package may be altered up to 30 per cent, during the running of the machine by using a hand wheel. In addition to volumetric feeding, vibratory and auger filling may be used. [Auger filling is suitable for non-free flowing and dusty products.].

THOMAS HILL ENGINEERING Co. (HULL), LTD., 247 Beverley Road, Hull, showed a number of new machines for cleaning most types of containers. Among them was the Watford air cleaner which dry cleans any type of wide-mouthed container. Powerful air jets eject every particle of foreign matter found in newly delivered containers before they are conveyed into filling lines. Output is up to 150 a minute. One of the largest single displays of machinery was on the stand of THE IDEAL GROUP OF PACKAGING MACHINE MANUFACTURERS, 1 Shrewsbury Road, London, N.W.10, the range including machinery for practically every packaging operation.

The Speedfix pad applicator was shown by INDUSTRIAL TAPES, LTD., 142 Old Street, London, E.C.1. The pad applicator, which is about the size of a cash register, is particularly suitable for attaching cylindrical objects (such as lipsticks) to cards. Capacity is sixty units per minute. The new Rotapress high-speed tablet machine was featured by MANESTY MACHINES, LTD., Speke, Liverpool, 24, who claim that it is "probably the fastest tablet machine in the world when used with fifty-five pairs of punches." The actual model shown was the "45" which has a maximum of forty-five pairs of punches but which allows a larger tablet up to a maximum diameter of \$\frac{5}{8}\$ in. to be produced. Output is 1,080-4,320 tablets

per minute.

Up to 35,000 ampoules or other cylindrical objects can be handled hourly by a new printing and packaging machine introduced by REJAFIX, LTD., 81 Fulham High Street, London, S.W.6. In addition to fully-automatic plastic-tube filling and sealing, and semi-automatic tube sealing, machines, ROCKWELL PNEUMATIC SCALE, LTD., Welsh Harp, Edgware Road, London, N.W.2, showed the Jowe Junior labelling machine for small-medium size containers, Capacity of the fully-auto-

matic machine is 7,200 labels an hour. Featured by SMITH & NEPHEW, LTD., Welwyn Garden City, Herts, was the Universal Lassotaper which automatically tapes most shapes of container up to 12½ in. diameter and 7 in. height at high speed.

Tape-sealing Advances

The COMMERCIAL TAPES DIVISION of DALMAS, LTD., Junior Street, Leicester, exhibited its range of Klingfast packaging tapes and "dispensers" including the new Dimple "dispenser" suitable for counter use. For sealing cartons of any size, without pre-sorting, GORDON & GOTCH (SELLOTAPE), LTD., 8 Paul Street, London, E.C.2, presented their Sellotape SAII taping machine. Mounted within a slot in a platform base the simple mechanism automatically applies a band ("u" seal) of self-adhesive tape up to $1\frac{1}{2}$ in, wide to the flaps of a carton as the carton is moved manually along the platform. The leading face of the carton picks up the tape which is wiped along the length of the carton, cut, and the end sealed to the following vertical face. Up to about thirty-six cartons a minute may be sealed.

A new no-moisture, pressure-sensitive sealing paper tape, Takstrip, was introduced by SAMUEL JONES & Co., LTD., 16 New Bridge Street, London, E.C.4. Takstrip is made of strong Kraft paper and does not tangle, has a water-repellent surface, does not stretch or shrink, is supple and flexible and unspools easily. It is available in six colours in 72-yd. coils. MINNESOTA MINING AND MANUFACTURING CO., LTD., 3M House, Wigmore Street, London, W.1, emphasised their Scotch brand pressure-sensitive No. 880 filament tape, particularly for bundling, holding and palletising and for reinforcing packages. The tape is described as a "scientifically-designed shock absorber—it gives and recovers under repeated impact...." The tape has continuous rayon filaments embedded in its adhesive and laminated to a smooth acetate-film backing.

Other Innovations

CASCELLOID DIVISION OF BRITISH XYLONITE Co., LTD., Abbey Lane, Leicester, had on show the Pneumapak, an inflatable plastic air "cushion" for use in the transporting of fragile articles.

So far only one size is available. KORK-N-SEAL, LTD. (closure division of United Glass, Ltd.), 8 Leicester Street, London, W.C.2, exhibited two new polystyrene jars, both suitable for cosmetic creams, ctc. One is double walled on the punt and sides with a matching Korkalite cap; and the other single walled. The company also introduced at the exhibition a new range of polythene bottles. Mardon, Son & Hall, LTD., Temple Gate, Bristol, 1, featured the all-paperboard interior wax-coated Satello drum for the packaging of powdered, crystalline and semi-liquid products. Size range is from 2\frac{1}{2}-4 in. diameter, and 1\frac{5}{8}-6\frac{3}{4} in. height. Chief advantage claimed for the drum by its makers is its low cost coupled with attractive appearance and good protective qualities.

Their latest packages in metal, paper and plastics were shown by THE METAL Box Co., LTD., 37 Baker Street, London, W.1. Among the materials shown was Densothene (a new high density polythene film, more rigid than usual — facilitating automatic packaging — and boilable); bags made out of 0.001 gauge Diothene film for such products as granules and powders; tablet tubes of high density polythene giving a better moisture and moisture-vapour barrier than the conventional polystyrene tube; and thin-wall high-density polythene bottles which are rigid and unbreakable. METAL CONTAINERS, LTD.,
17 Waterloo Place, London, S.W.1, are producing a new type of container: "Taper pails and kegs" have a conical shape allowing close nesting of the bodies affording great savings in storage space. Sole British licensees of the method of producing Vitherm containers, PLASTIC WELDINGS, LTD., 11B Strafford Road, London, W.3, showed a number of containers, including a fibre-board drum, with built-in plastic Vitherm liners.

A Tablet-bottle Sleeve

ROBINSON & SONS, LTD., Wheat Bridge Mills, Chesterfield, introduced at the exhibition a tablet-bottle sleeve designed mainly for the manufacturer with a small run. Six tablet bottles may be sleeved simultaneously and, being perforated, the sleeve allows any number of bottles to be removed speedily in units of any number up to six, an advantage that should appeal to whole-salers.

Among the examples of the extensive range of spirally-wound paper and cardboard tubes from 0.09-9 in. diameter, in which ROLEX PAPER COMPANY, LTD., 21 Chiswell Street, London, E.C.1, specialise, was the new Rol-Con drum available with barrier liners, suitable for pharmaceutical products. Also shown was the new patented Rol-Pak postal container "which more than pays for itself by virtue of the fact that no extra wrapping is required." The company's range of Meteor self-adhesive tapes and tape "dispensers" was also shown.

A new sponge applicator for liquids was shown by H. G. SANDERS & SON, LTD., Gordon Road, Southall, Middlesex. It comprises a metal tube which is squeezed to eject the liquid into a plastic "sponge" fixed at the top of

the tube. The sponge may be rinsed to clean out all traces of the liquid and the cap, when replaced, seals the sponge by means of a plastic prong. SPICERS, LTD., 19 New Bridge Street, London. E.C.4, showed Netlon, an extruded plastic net available in a wide range of colours, materials, patterns and filament thicknesses, mesh sizes and diameters. It can be produced from any thermoplastic, and is claimed suitable as a holder for air deodorants and purifiers, as a material for unit packaging, and even as a backing, or filament, for surgical dressings. John Waddington, LTD., Wakefield Road, Leeds, 10, have acquired the full rights in Britain for the Renopak fully-automatic equipment

for the production of plastic containers, Messrs. Waddington rent out the machines to manufacturers and supply the material from which the bottles are formed. The Renopak machine makes plastic bottles of any desired shape or size (up to 1 litre capacity), which may be sealed or provided with friction plugs, screw caps, etc. The best results so far have been obtained with high-impact or rigid PVC and high-density polythene. The company are now producing sterilisable containers including sputum cups and general packages for ointments, etc., all made of plastic, and a small plastic container into which are placed surgical instruments for autoclaving.

SIR JOHN CASS COLLEGE

Evening courses for 1959-60

AMONG evening courses available at the Sir John Cass College, Jewry Street, Aldgate, London, E.C.3, in the 1959-60 session are:—

ABSORPTION SPECTROSCOPY. Ten lectures (by Mr. A. R. Philpotts, M.A. (Cantab.)), from 6 to 7 p.m. on Friday evenings, beginning on October 9. A laboratory course in both emission and absorption spectroscopy is being arranged later to suit students' requirements. Fee, £1.

SPECTROCHEMICAL ANALYSIS. The course, which is based upon techniques of emission spectroscopy, consists of twelve lectures (by Mr. F. W. J. Garton, B.Sc. (Lond.), A.Inst.P., F.R.I.C.) and is being held from 6 to 7 p.m. on Wednesday evenings beginning on September 30. A laboratory course in both emission and absorption spectroscopy is being arranged later to suit students' requirements. Fee, £1.

FUNDAMENTALS OF MICROBIOLOGY. The course is of about thirty lectures and laboratory work (by Mr. N. J. Butler. M.Sc. (N.Z.)), from 6 to 9 p.m. on Tuesday evenings, commencing October 6. Fee, £2 10s. The course forms an introduction to microbiological techniques for graduates in chemistry, botany and zoology but is not designed for those concerned with medical applications of microbiology.

APPLIED MICROBIOLOGY. About thirty lectures and laboratory work (by Mr. N. J. Butler, M.Sc. (N.Z.)), from 6 to 9 p.m. on Thursday evenings, beginning on October 8. Fee, £2 10s. The course forms a survey of the applications of microbiology in industry and is designed for students who have completed the fundamental course or those with a knowledge of, and experience in, microbiology.

THE MODERN KINETIC THEORY OF LIQUIDS. Six lectures on the modern Kirkwood-Eisenschitz theory of irreversible processes in the liquid state (by Drs. A. Suddaby, J. V. Champion, and J. L. Wood) at 6 p.m. on Thursdays beginning October 29. Fee, 10s. The course is intended for graduates in physics and chemistry who are not familiar with modern liquid theory. Some knowledge of statistical mechanics is assumed.

STATISTICAL METHODS IN SCIENTIFIC AND INDUSTRIAL RESEARCH. About twenty lectures (by Mr. A. J. Feuell, B.Sc., Ph.D. (London), A.R.I.C.), are being held at 6.30 p.m. on Monday evenings beginning on September 28. The course is suitable for chemists, biologists and others interested in the practical application of statictics to problems of research and manufac-

ture. Fee for the course is £2.

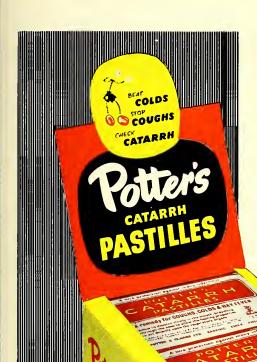
RADIOCHEMISTRY and RADIOACTIVITY. Eight lectures (by Mr. A. G. Maddock, Ph.D., ScD.(Cantab.), D.I.C.) at 6 p.m. on Tuesday evenings, beginning on October 13. Fee, £1. A course on "The Hazards of Radioactivity in Biology and Medicine" is being arranged for the second term. (Full-time courses on "The Use and Measurement of Radioisotopes," each of fourweeks duration, are being given each term).

INDUSTRIAL LAW. Twelve lectures (by Mr. Anthony Walton) at 6 p.m. on Thursday evenings beginning on October 1. Fee, £1. A course of lectures on patents is being held during the second term and on trade marks in the third term.

A detailed prospectus is available, on application, from the College secretary, from whom forms for enrolment may also be obtained.

MANUFACTURERS' ACTIVITIES

Sales Conference and Service Awards. -An innovation at the annual sales representatives' conference of Crookes Laboratories, Ltd., held in London on September 2 and 3, was to give over a whole session to veterinary matters. A lecture and film introduced by Mr. Thomas Walne, M.P.S. (West Cumberland Farmers' Trading Society) illustrated the economic uses of vitamin D₃ injections in sheep husbandry. Mr. N. Taylor (veterinary manager) gave talks on massive-dose vitamin-D therapy in connection with milk fever in dairy cattle and grass tetany in other classes of stock and on two common trace-element deficiency problems. Addresses were given by Mr. N. O. Eve on anti-haemophilic globulin and by Dr. N. A. Thorne (dermatologist at the Prince of Wales Hospital, Tottenham) on skin diseases. At a dinner and dance that ended the conference Mr. G. E. Watson (general manager), who said he had himself served thirtynine years with the company, referred to the silver anniversary roll upon which were inscribed the names of all who had had twenty-five years' service with the company. Seven more names, he said, had gone on the roll and he presented gold watches to Mrs. Irene Thompson and Messrs. Clifford Fox, Geoffrey Garnett, Jack McKenna, Dud-ley Clarke, Ossie Byett, and Tom Pritchard.



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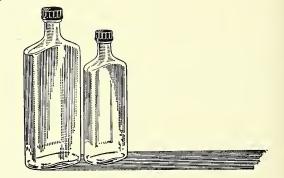


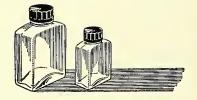
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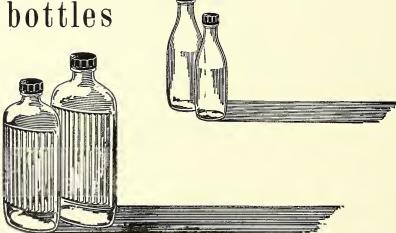
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Drug Costs — and What to Compare Them With

An increase by £645,802 to £5,112,343 in the cost of pharmaceutical benefits in the year ended March 31 is held by the New Zealand Director-General of Health, in the report of the N.Z. Department of Health, to compare unfavourably with a decrease of £106,016 (to £4,466,541) in the previous year.

The report records that over 12.8 million prescriptions were dispensed in the period at an average cost

of 7s. $11\frac{1}{2}$ d.

In his own subsection of the report the Director of the Division of Clinical Services gives the average cost of prescriptions per head of population as £2 4s. 11d., and adds "This seems a lot if one does not know how much modern drugs cost. A single prescription (sixteen capsules) for one of the commonly used antibiotics costs £3 5s. 8d. This is sufficient for about three days' treatment."

The New Zealand Drug Tariff is a limited list. New drugs do not automatically become available for prescriptions at the cost of the fund. Each must be formally approved, and practically all applications for additions to the Tariff are from the drug industry itself. Full details are supplied, including reprints of the latest reports on clinical trials throughout the world. The cost factor is brought into perspective by supplying comparative lists of all products available in particular classes, with estimates of their unit costs. No new drugs are ever included in the Tariff without the prior approval of the expert advisory committee appointed by the Minister of Health.

In 1958-59 three amendments to the Drug Tariff took effect. In consequence the number of additions was much larger than usual. "That is the principal reason for the sharp rise in costs in the past twelve months."

Under a heading "Do Prescriptions Cost Too Much?" the director reports that prescriptions do not vary in cost in the same way as ordinary commodities. Individual drugs seldom show any tendency to increase in price from year to year. "Indeed, once the patent expires, an expensive drug is apt to become a cheap one overnight . . . but most patents run for sixteen years and during that time because the State . . . foots the bill . . . and the volume of sales has, therefore, practically no relationship to changes in the market price, most firms show little tendency to reduce the price as the popularity of the drug increases. . . . The existence of

social security benefits has therefore interfered with a natural trade process, to the detriment of the taxpayer." The director argues that prescriptions rise in costs solely as a result of progress in exceedingly costly pharmaceutical research and development. "There can be no doubt that, when properly used, these drugs, carefully selected . . . are well worth the money they cost. In the saving of lives, hospital beds and time off work (not to mention all the anguish and suffering), they pay for themselves many times over."

While the average cost of prescriptions has risen by 41 per cent. in ten years, the report mentions, consumer goods generally have increased by 58 per cent. Had the prescriptions risen at the same rate the pharmaceutical bill would have been £600,000 higher.

The director nevertheless maintains that the New Zealand Department of Health has paid too much for most drugs, even though "they compare not unfavourably with the majority of the things we buy in this country."

We leave our readers to sort out the confused and confusing arguments of the several authors of the report. Many will probably reach the same general conclusion as ourselves, namely that drugs are costly or good value for money according to one's basis of comparison.

Vending Machines as Obstructions

PHARMACISTS will recall the advice given by the Council of the Pharmaceutical Society (see C. & D., April 18, p. 427) that members' automatic machines should not be used for the sale of medicines. It would appear that those chemists who install personal weighing machines or vending machines for photographic goods, sundries or cosmetics outside their premises must now also take cognisance of the attitude of the local authorities in these matters and be prepared to meet any challenge which they may make.

Under a recent decision of the courts, the placing of an automatic vending machine outside a shop does not constitute "development," and the permission of the planning authority is from that point of view unnecessary. The general impression has arisen that the local authority or police may in no circumstances, therefore, require the removal of such machines.

Some local authorities, however, having given the problem further consideration, now take the view that they can prevent the erection of such machines under the old Highway Act, 1838. According to section 72 of that Act, it is an offence for a person to obstruct the passage of any footway or to obstruct the free passage of any highway or part of the highway. Some vending machines, it is now argued, are positioned so as to constitute an obstruction, and accordingly cause an offence.

Another line of attack of the local authorities is under section 69 of an equally old Act: the Towns Improvements Clauses Act, 1847. That section enables an authority to require an occupier to remove any "obstruction or projection" against, or in front of, any building, which hinders "safe and convenient passage" along any street. The shopkeeper could contend that that provision cannot be prayed in aid by a local authority unless it is established that the machine is in fact, endangering or inconveniencing passers-by on the pavement. But he might have to test the matter in the courts.

THE COMING OF KAOLIN

Pharmacists' part in its development two centuries ago

S INCE kaolin or china clay enters into such a variety of products from tooth-pastes, cosmetics, and medicines, to rubber, plastics and polishes, its history is of interest alike to pharmacists and industrial chemists. Two points in its history are due for commemoration just now, the first relating to the discovery of kaolin or "Colditz clay" by Böttger 250 years ago for his first hard porcelain at Meissen, the second the independent discovery of Cornish china-clay by William Cookworthy, a Plymouth chemist. Böttger's use of kaolin began the story of Dresden china, while Cornish clay, in the hands of Cookworthy, led to Bristol porcelain and thence to Worcester. Those developments drew attention to an important raw material produced in Cornwall and Devon at the rate of over 500,000 tons annually.

An Apothecary's Son

Johann Friedrich Böttger was a Berlin apothecary's son who became alchemist and appears in some alchemical works as "Bötticher." A strange character Lascaris, from the isle of Mitylene, fell ill and sent for an apothecary. He had to make do with the services of Böttger instead, and in gratitude for his treatment gave Böttger a little "powder of projection." Böttger then deserted pharmacy for alchemy, became noted for (as everyone believed) turning silver into gold, and was on that basis sent for by King Frederick I. That early phase was a prelude or essential preliminary to Böttger's discovery of kaolin; for in fleeing from the attentions of Frederick of Prussia and his gold-making searches," Böttger came to Saxony, where later he discovered minerals suitable for porcelain-making. Before that fruitful result came about it seemed as if Böttger had jumped from the frying-pan into the fire, for it was as Elector of Saxony that Augustus the Strong forced Böttger into his service as gold-maker and then as porcelain-maker, granting him considerable capital but keeping him prisoner because he had claimed to be able to make gold. Later, when Augustus realised that no gold was on the way, he released Böttger to work in a laboratory on the problem of imitating old Chinese porcelain, which was at that time collected by noblemen of Saxony but at a ruinous price. Over the door of the laboratory Böttger sardonically placed a notice that the Creator had "turned a gold-maker into a potter." He succeeded, however, in his search for a white porcelain. At Dresden in 1708 the Dutch potters had introduced their delft or tin-oxide-glazed pottery, but Böttger improved on that after examining several ceramic raw materials and finding that Colditz clay was ideal as a nonfusible fire-resisting clay. Much help came from his associate Walter von Tchirnhausen, a chemist who collaborated in the search. Just as Cookworthy was believed later to have discovered kaolin while riding, his horse's hooves churning up a white clay, so the same story is told that the ironmaster Schnorr at Aue sent Böttger a sample of the kaolin that was even superior to the clay from Colditz.

Just 250 years ago Böttger took from his kiln the first specimen of a true porcelain, one shown at a Leipzig fair and causing a royal order for a porcelain factory to be begun at Dresden, later to be transferred to Meissen. Böttger later obtained his kaolin from Aue and—probably from the same quarries—his felspathic material. He divided between two court officials details of the secret composition of arcanum so that no single "expert" knew the whole story. Dresden china was one epoch-making result of his work; but it had a wider significance, since by 1719, when the secret was out, kaolin began to develop in other fields.

Two centuries ago kaolin history gained another striking chapter when William Cookworthy found Cornish clay at Tregonning Hill, and also China-stone or "moor stone" as second raw material for his attempts to make fine porcelain. Cookworthy, onetime apprentice to a Quaker apothecary, had his own pharmacy in Plymouth. Hence, when he became interested in porcelain, it was natural that he should search for china-clay in Devon and Cornwall, little realising at that time how kaolin in cleansing-soaps, as adsorbent in medicine, and in other pharmaceutical uses was to become invaluable in his profession as well as in his hobby. It was in some "Letters from China" written by the Jesuit father D'Entrecolles that Cookworthy heard how ancient Chinese porcelain had two kinds of bodies: one prepared with pentunse and caulin (now kaolin) and the other with pentunse and "soapy rock." Pentunse was a quarry-stone ground to a fine powder and washed and settled to furnish one raw material (called "moor-stone" in Cookworthy's region and discovered at Germo in Tregonnin Hill). He also found caulin in "inexhaustible store" in the West country, where it was used to repair tin furnaces. The Plymouth pharmacist gained little profit from his double discovery of two porcelain raw materials in Devon and Cornwall; for he sold his porcelain patent to Richard Champion of Bristol, where the industry had a short period of success before it was transferred to Worcester.

West Country's Exports

Before the United States developed considerable kaolin resources in North Carolina and Georgia, more than 800,000 tons or 27 per cent. of world supplies, came from the English West country, with little ports like Fowey and Par sending large shipments overseas. While the versatility of kaolin in chemical industry and pharmacy is fully appreciated today, its development in the hands of two pharmacists and porcelain-makers is less known. The story is a fascinating one, bringing in as it does two such characters as Böttger the alchemist, and Cookworthy the friend of Captain Cook and Sir Joseph Banks—"a tall venerable figure in his three-cornered hat and bushy curly wig."

ECHOES OF THE PAST

INVALUABLE AND MUCH APPROVED

From The Morning Chronicle, August 7, 1788

THE Governors of the Asylum and Magdalen Charity as proprietors of the late Dr. Ward's invaluable and much approved Medicines, being desirous of preventing any counterfeits of them, and zealous to testify their conscientious regard to the publick good, hereby give notice, that they have entrusted the preparation of them solely to Mr. Godfrey, Chymist, of Southampton-street, Covent garden; and have also appointed Messrs. Wrays, druggists, of Birchinlane, Cornhill, joint agents with Mr. Godfrey for managing the sale of them; and as a sure means of authenticating their genuineness, each bottle, box, and pot is sealed with the cypher A.M. and each paper of directions is signed with the names of Stephen Aisley and Hugh Seton, Esquires, Treasurers of the above Charities. The Medicines are as follows, viz.

The White Drop, for the scurvy.

The Red Pill, for chronic diseases in general.

The Emetic Sack Drop.

The Sweating Powders.

Fistula Paste.

Liquid Sweat.

Dropsy Powders. And

Essence for the Headach.

The most authentick proofs can be produced of the efficacy

of the above medicines.

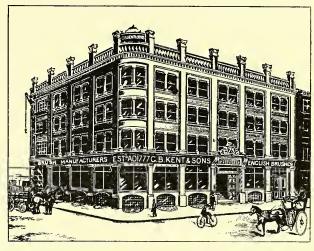
N.B. Good allowance to those who take any quantity.—
The medicines may also be had at the Asylum and Magdalen Hospital.

"One of the Oldest Companies in Britain"

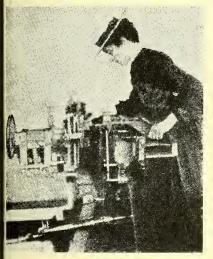
LEADING BRUSH MAKERS SINCE 1777

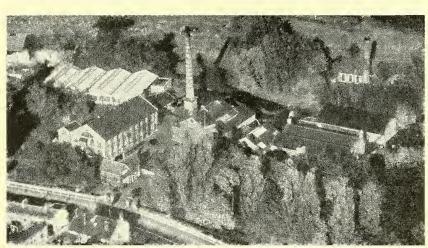
THERE has just been produced—and most handsomely produced—a fifty-page history of G. B. Kent & Sons, Ltd., 24 Old Bond Street, London, W.1, makers of "best British brushes." The published story—a scarlet-covered brochure of 7 in. x 9 in. page size, is remarkable for two things. The history extends over no less than 182 years of continuous manufacture of brushes (including hair and tooth-brushes), with members of the founder's family in control for 154 of that number. And the considerable, in fact enormous, research work necessary before any of it could be written was done by the author of the book, Miss Doris Woodall, M.A. (Cambridge), who has been a director of the company for twenty-five years.

The business was started in the West End of London (at 7 Tylers Street, since renamed Foubert's Place) by a young Yorkshireman, William Kent, who demonstrated a self-confidence it might be hard to justify in the conditions of today by marrying first and then setting out to London to earn his livelihood. He chose well. Though he sometimes had to get his brushes to customers by delivering them himself on horseback, his business prospered. So much so that



75 Farringdon Road, London, E.C., in 1897. The premises remained the company's headquarters until 1940.





five of his six sons were encouraged to become brushmakers like their father, and three of the five came into the actual business he had set up. Under William Kent, jun. (head of the business 1807-36) the firm was engaged to make tooth-

held the Royal Appointment as brushmakers to William IV. The George Barton Kent who bequeathed his initials to the present (public) company came into the business at the age of fourteen, worked his way through all departments, and served in all for fifty years. "G.B." first appeared in the title in 1854, when the partnership became "G.B. Kent & Co." Under him it secured the appointment to Queen Victoria, a royal association renewed under King George VI and indeed till the present day. In 1872 the firm was able to claim that it was producing "more brushes than in any other factory," and about that time it set up a factory at Victoria Park, Bethnal Green, in east London, at which production was further reinforced by that of G. G. Ashburner, whose business was purchased in 1873. Ashburner stayed with the firm as manager and under him the first tooth-brush-making machine was installed. Sixty gross of tooth-brushes were turned out per week, the handles being chiefly made of bone. Only the leg bones of bullocks were used and the consumption of bones for that output required the produce of no less than 600 head of cattle weekly. For-

brushes for George IV, and some of them are still in pos-

session of the company; and the company, as early as 1834,

tunately for the continuity of supply, other materials for handles largely ousted bone, which today is no longer used. For many years the firm engaged in a considerable manufacture of hair and toilet brushes in ivory, and a photo-



1908: The company's first motor van. It replaced horse-drawn vehicles which won fourteen awards, 1890-1909, at the London Cart and Van Horse Parade.

graph of the ivory warehouse in the late nineteenth century, still extant and reproduced in the history, shows an astonishing array of tusks maturing before being carved up.

The year 1875 saw the opening of a new and larger factory at Victoria Park with an increasing tally of workers, reaching 600 in 1882. In the meantime (1880) the title had changed to "G. B. Kent & Sons," only requiring the "Ltd." to become the present style of company. That was added in 1900 when the public company was incorporated.

From 1897 until 1940 the headquarters of the company was at 75 Farringdon Road in the City of London and then, by a strange turn of fate, during the war the company moved to temporary offices in Regent Street near Foubert's Place, a stone's-throw from its original eighteenth-century home. That address, unfortunately, however appealing from a sentimental point of view, was only temporary, and after the war a move was made to the present headquarters at 24 Old Bond Street, W.1.

Three Factories

The company today operates three factories—the one at Victoria Park, already mentioned; the main factory for machine-made brushes opened at Apsley, nr. Hemel Hempstead in 1901; and a third at Deal, Kent. In 1932 an association was entered into with Cosby Brushes, Ltd., Mr. Eric L. H. Cosby becoming the chairman and managing director of the company. Mr. Cosby's son—Mr. Eric L. H. Cosby,

jun., is also on the board and is now the assistant managing director.

The company has taken a leading part in the affairs of the brush-making industry, and indeed Mr. Ernest Kent was one of the principal founders of the British Brush Manufacturers' Association, and its president, 1908-19.

High quality has been so much a policy of the company that, for example, it set its face against the use of nylon in tooth-brush manufacture and has had the satisfaction of seeing its principles vindicated by a swing of medical and dental opinion to the renewed use of bristle brushes. Exports have loomed large in the company's manufacturing programme since the 1870's. Its partners or directors have made a point of visiting overseas markets to assess for themselves their needs and potentialities, and it may be said that nowhere is the company's reputation higher, or its products more sought after, than in that most difficult of markets the United States.

The skilled worker who, in the display window of the company's retail premises in Piccadilly, makes brushes by hand for all to see, is an unfailing attraction to American visitors, as to those from all other parts of the world and from the home country. One hopes that hand-made pure bristle brushes, which constitute an important part of the company's business, will long continue to keep alive the ideal of craftsmanship that has sustained the company among the leaders of its industry for close on two centuries.

PHARMACEUTICAL SOCIETY OF IRELAND

Monthly meeting of Council

ANDIDATES who were "referred" in a section of the old Licence examination may be permitted to enter for one further supplemental examination after an interval of six months, it was announced at a meeting of the Council of the Pharmaceutical Society of Ireland, held in Dublin on September 8. The president (Mr. H. P. Corrigan) was in the chair. The decision followed the reading of a letter from the board of examiners, recommending that such candidates should be given another chance of qualifying.

Some members of the Council contended that the July examination had been "the close of an era," and that to hold a supplemental examination might lead candidates to believe that yet a further supplemental examination might be held later for any remaining students who might not be successful in the first. After a long discussion it was agreed that representations should be made to the Department of Health to permit the holding of an examination along the lines suggested by the board, but it was emphasised that candidates should clearly understand that if such an examination were approved it would definitely be the last opportunity for "referred" students to qualify. Candidates who might fail such a supplemental examination would then have to transfer to the new courses should they wish to qualify.

At the beginning of the meeting the registrar read a letter from the secretary of the President of Ireland acknowledging the Council's resolution of congratulation and best wishes to Mr. de Valera on his election as President.

A Responsibility Defined

Dispensary compounders are not obliged to supply potent medicines to young messengers and may exercise their discretion before handing over such substances to young children. That was a ruling conveyed to the Council by the Department of Health. The Registrar explained that a pharmacist in the provinces had written to him asking for a direction on the matter and he had contacted the Department, which, on July 20, had replied as follows: "... regarding the issue of medicines of a potent nature to young children. As you will appreciate, it would be virtually impossible to lay down a hard and fast rule or regulation to cover all the various types of cases which could be affected. Sick parents, or old persons living alone, may have no other

means of obtaining their medicines, and grave hardship could be caused by restrictive measures applied uniformly. Difficulty would arise in defining and limiting any such restrictive rule and in implementing it. The Minister suggests that the exercise of common sense is the only satisfactory way to meet the difficulty which must arise on occasions in the chemist's own shop. If the medicine is potent, and the messenger is regarded as unsafe or unreliable it would be reasonable for the dispensary compounder to decide not to supply the medicine and to explain to the messenger that an older person should be sent to collect it. If the compounder is also worried about his position in refusing to supply medicines properly prescribed, it is suggested that a note regarding his action should be sent to the local authority without delay."

The registrar said he had written to the pharmacist concerned enclosing a copy of the Department's letter and assuring him that his office of compounder did not compel him to hand out potent substances to young messengers if he thought a potential danger existed in so doing.

The Council asked the registrar to thank Messrs. E. Merck, Darmstadt, Germany, for their generous donation of a display case containing vials of vitamins, etc., for use in the College of Pharmacy.

Arising from examiners' report on the Second Professional examinations held in July, members decided that the contents of the report should be conveyed to the candidates, as they would prove of value to them in future examinations. It was thought that the observations of the examiners would be particularly helpful to unsuccessful candidates. It was agreed that extracts of the examiners' report should be placed on the candidates' notice board and that the dean of the College should be asked to draw attention to the various points raised.

In an accompanying letter, the dean of the College (Dr. R. F. Timoney) supported views expressed by Professor Paul J. Cannon and Dr. O. C. Ward, who submitted a memorandum on the teaching of pharmacology and physiology to pharmacy students. Following discussion it was decided to set up a committee, consisting of the honorary officers and Messrs. Kennelly, Miller, O'Connor, Fullam and Dr. Timoney, to consider the memorandum as well as other

aspects of the Society's educational system, and to report back to the Council.

The president moved, Mr. O'Neill seconded, and it was agreed that the best wishes of the Council should be conveyed to the Society's inspector, Mr. P. S. O'Briain, M.P.S.I., and Miss M. Woods, Ph.C., on their recent marriage.

The Council expressed satisfaction with the progress made in connection with the Irish Pharmacy Week, October 12-16. The following were granted registration in the Pharmaceutical Assistants' Preliminary Register:—Misses Marie T. Carroll, Margaret M. Morrisey, Catherine M. Mangan, Catherine M. Murphy, Anne T. Martin and Mr. James B. Campbell. The following were granted registration in the Pharmaceutical Chemists' Preliminary Register: Messrs. Thomas P. Mullally, John A. O'Sullivan, Thomas T. Darkoh, and Misses Mary Hayden and Maire S. Sheehan.

The following changes of address were noted: Mr. S. McKiernan, L.P.S.I., to 584 North Circular Road, Dublin; Mr. R. Laffan, L.P.S.I., to Seymours Medical Hall, Miltown Malbay, Clare; Mr. P. O'Leary, L.P.S.I., to Ploverfield, Cullen, Mallow, co. Cork; Mr. W. Sayers, M.P.S.I., to Innisfree, 22 Nightingale Lane, Earlsdon, Coventry; Mr. G. Klein, M.P.S.I., to c/o Mrs. Gluckman, 303 Sunleigh, Cellier Street, Sunnyside, Pretoria; Mr. L. Manley, M.P.S.I., to Dublin Street, Balbriggan; Dr. R. Timoney, M.P.S.I., to Raford, Knocksinna, Stillorgan, co. Dublin.

The following were nominated for membership: Mr. Thomas J. Leahy, 289 Navan Road, Dublin; Mr. James B. Byrne, Ballyhaunis, co. Mayo; Dr. W. A. K. Dwyer, Raglan Road, Ballsbridge, Dublin; Dr. John T. Gallagher, North Strand Road, Dublin; Mr. Richard Laffan, Seymours Medi-

cal Hall, Miltown Malbay, co. Clare.

A marriage certificate having been submitted approval was given for the change of name in the register of Mrs. Mary Scully (née Mulver), M.P.S.I., 20, Henn Street, Killarney, Licence certificates of the following were signed and sealed: Misses D. M. Cooke, K. Fitzpatrick, T. Hunt, M. C. Webb, M. P. L. Molloy, A. Murphy, R. Lancaster, M. E. Jones, B. McCann, A. M. P. Nolan, M. T. Woods, M. E. Sewell and Messrs, J. F. O'Brien, B. J. Twomey, J. O'Beirne, E. R. Corcoran, T. P. Tracey, P. O'Leary, D. J. Lynch, T. J. Leahy, Elected to membership were: Mrs. Mary Fee, Mrs. Catherine O'Sullivan, and Messrs, O. D. Lynch, K. A. Fitzmaurice, K. Quinn and M. A. Keegan.

L.A.H. certificates having been submitted, approval for the registration as pharmaceutical chemists, of the following, was granted: Drs. Rupert Gordon Ramesvar Bobart, Trinidad; John Aidan Carney, Ballaghadereen; William A. K. Dwyer, Raglan Road, Dublin; John T. Gallagher, North Strand Road, Dublin; Johannah M. O'Leary, Tralee, and

George Tappas, London.

The registrar reported on the deaths of Christopher James Cullen, M.P.S.I.; Alexander Taylor McKay, L.P.S.I., and Nora Fox, L.P.S.I.

Students' Revision Course Proposed

Arising out of the Schools' Committee report it was mentioned that some inquiries had been received from candidates regarding the possibility of holding a revision course for students who had been unsuccessful in the Second Professional examination held in July. THE REGISTRAR said he had discussed the matter with the dean of the College and it was agreed that if sufficient applications were received every effort would be made to help those students.

MR. MILLER said that as a member of the Optical Board he would like to point out to all pharmacists interested in the practice of ophthalmics that the appointed day for registration with the Board would shortly be announced by the Minister, probably within a week. He explained that pharmacists who failed to register before the appointed day would not be allowed to practice in optics.

Messrs. T. B. O'Sullivan and M. F. Broderick were appointed scrutineers of the ballot for the 1959 Council election

election.

Council members present at the meeting were Messrs. M. Power, D. J. Kennelly, M. L. Cashman, J. O'Donnell, F. J. Robinson, G. C. O'Neill, T. B. O'Sullivan, P. Fullam, J. Gleeson, T. R. Miller and C. J. Cremen. Apologies for absence were received from Miss L. Cunniffe and Messrs. M. F. Broderick, J. J. O'Regan, K. A. Banks and V. G. McElwee.

A number of grants were passed for payment at a meeting of the Benevolent Fund which followed.

MEDICAL ABSTRACTS

AN EVALUATION OF DEXAMETHASONE

THE clinical values of corticoids are reviewed by Dudley Hart, Golding and Brown (Lancet, 1959. ii. 255) in a paper investigating the use of dexamethasone. The authors state that the relative anti-inflammatory dosage of different substances is in their experience, 25 mgm. cortisone acetate= 20 mgm, hydrocortisone = 5 mgm, prednisolone or predni-= 4 mgm. of methylprednisolone or triamcinolone. The intention of the investigation was to discover practical advantages for dexamethasone over its predecessors. Thirty cases, of which nearly half had already had long-term steroid therapy, were given the drug in a 1/5 dose ratio for the treatment of rheumatoid arthritis. Twelve patients Twelve patients showed a preference for dexamethasone, six were indifferent, and twelve favoured prednisolone. In a limited number of other conditions (lupus erythematosus, three; scleroderma, two; ulcerative colitis, one; status asthmaticus, one) there was little or no improvement, though one case of ankylosing spondylitis showed improvement. The authors find that dexamethasone demonstrated no obvious advantage, though some patients preferred the drug; and that it is clinically useful to have yet another potent steroid available.

PLASTIC BAG SUFFOCATION

THE American Medical Association's Committee on Toxicology recently (J. Amer. med. Assoc., 1959. 170. 1667) reported on the danger of suffocation presented by discarded polyethylene garment bags and plastic dry-cleaning bags used as improvised mattress or pillow covers-not, until recently, generally recognised as an accidental hazard for infants and small children. A National Safety Council survey of forty-eight State health departments revealed twenty reported deaths in ten States due to suffocation from plastic materials from January to March, For several reasons, those figures do not represent the full extent of injury. The majority of reported deaths occurred in infants six months old or younger. In the sixteen cases in which age was recorded, fifteen deaths involved infants up to six months, and one death occurred in a child over one year old. Further analysis of the records showed that plastic sheets were mentioned in seven deaths and plastic pillow cases in three deaths. In six cases in which plastic sheets were mentioned, the mother had used them to cover the mattress in the infant's crib. At the time of this report, approximately seventy deaths attributed to plastic bag suffocation have been reported from official and unofficial sources. Ten of these were intentional deaths in adults. It now appears that the early estimate of 100 deaths for 1959 may be a conservative estimate, if the following remedial measures do not become effective. It is imperative that parents take the following precautions: Do not give plastic bags or plastic film in any form to children to play with; after plastic bags and wrappers have served their purpose, destroy them; do not use plastic film as slip covers for pillows and mattresses or as blanket protectors.

Should an emergency arise from the misuse of plastic film, the following steps are recommended: 1. If the child's breathing has stopped, the immediate need is to restore breathing; send for help. 2. Try to resuscitate the child, using the mouth-to-mouth technique: (a) Place the child on his back and extend the neck back. Put a towel or pillow under the shoulders so the head drops back. (b) Lift the lower jaw up to assure an open airway. (c) Place your other hand on the stomach to prevent its overinflation. (d) Place your mouth over the child's mouth and nose and blow in. After each breath, turn your head to the side, take another breath, and blow in again. Repeat twelve to twenty times a minute. 3. If the child is suffering laboured breathing, is stunned, or has difficulty in movement, rush him to the

nearest hospital.

MISCELLANEOUS INQUIRIES

Silicone Furniture Polish

Modern furniture polishes seem to depend on silicones. Can you give me a formula?

THE following is a suitable basic formula far a silicone furniture polish:—

Silicone fluid	MS200		 2.2
Oxidised micro	crystalline	wax	 3.6
Mineral spirits			 94.2

Hand Creams

I want a basic formula for a hand cream to which I can add my own perfume.

We suggest you take the following as a starting-point:—

Cetyl alcohol			 0-6
Lanolin			 1.0
Light liquid parat	fin		 14.0
Stearic acid			 4.0
Isopropanolamines			 0.8
Glycerin			 5.0
Methyl p-hydroxyl	benzo	ate	 0.2
Titanium dioxide			 0.1
Distilled water			 74-4
		• • •	ner cen

The water containing the glycerin and alkali is heated to 70°C. and added to the mixture of the stearic acid, cetyl alcohol, lanolin, petroleum oil, methyl p-hydroxybenzoate, etc., warmed to the same temperature. The mixture is stirred until cooled down to room temperature.

Coconut-oil Shampoo

Please send me a formula for a liquid coconut oil shampoo.

THE following formulas are for a liquid coconut oil soap-based, alcoholic and non-alcoholic:—

EMULSIFIED (COCON	UT OH	SH	AMPOO
Coconut oil				4 1b.
Caustic potash				71 oz.
Caustic soda				61 oz.
Industrial meth	ylated	spirit		40 oz.
Water to				2 gall.
NON-ALCOHOL	IC CO	CONUT	SHA	MPOO
Coconut oil fa	tty acid	ds .		42 parts
Oleic acid .				56 parts
Propylene glyce	ol .			55 parts
Tricthanolamine				58 parts

Mix the fatty acids, add the amine and then the propylene glycol. Stir until a clear solution is obtained. No heating is required. Dilute with water to any desired consistency. When the water is first added, the shampoo concentrate assumes a soft paraffin-like consistency and gradually changes to a clear, very slightly viscous solution of pale amber colour. If the water becomes cloudy, stir in more amine, a little at a time, until it becomes clear. A solution of one part with three by weight of water before use is understood to make an excellent shampoo (pH about 7.93). Builders, sequestrants, antiseptics, perfumes and any "speciality" ingredients can, of course, be included in the formulation to impart character to the shampoo.

Foam Bath

What is the basis of bubble-bath preparations. Can a bubble-bath product be issued as a powder?

THE following are suggested formulas for a bubble-bath powder:—

Sodium lauryl sulphate	55 parts
Sodium carbonate (dried	
powdered)	30 parts
Saponin	7 parts
Soluble starch	7 parts
Perfume	1 part
2	
Sodium lauryl sulphate	30 narrs

Sodium	sesquicarbonate	 63 parts
Sodium	alginate	 2 parts
Perfume	as desired.	

Powders should be sealed in moistureproof packets. For a liquid foam bath the following formula may prove to be of value:—

Triethanolamine lauryl sulphate

			liq	uid	50 pa	arts
Foam	builde	er and	stabil	iser	5 pa	arts
Water					45 pa	arts
Colour	and	perfume				q.s.
ponin,	muc	ilages	and	cellı	losic	der

Saponin, mucilages and cellulosic derivatives are useful as stabilisers, though saponin tends to darken in alkaline solutions on keeping.

Calculation of Percentages

I am advised in some quarters that, in incorporating codeine phosphate with other medicaments in a tablet I must limit its percentage to below 1.5 per cent. in order that the tablet shall be exempt from Schedule I. Yet I could theoretically incorporate the same amount of the alkaloid itself and still gain exemption. By my calculation codeine phosphate contains only about 70 per cent. of the theoretical alkaloid. Is it not absurd to treat the two as if they were identical?

We think with you that it is. The final interpretation of any Act or set of Regulation lies, of course, with the courts, and so far as we know there has been no case which has dealt with the point you raise. We hold, in the meantime, that Whatmough's interpretation in The Chemist and Druggist Poisons Guide, Volume 2, is the common-sense one, and that the application of rule 2 (2), in disregard of the fact that alkaloid salts cannot contain 100 per cent. of an alkaloid, is wrong. We believe, therefore, that rule 2 (3) should be used for the purposes of calculating whether or not a substance comes within the First Schedule or is exempted by rule 11 (substances included in the third schedule).

Cleaning Quicksilver

Please suggest a method for cleaning mercury.

MERCURY can be cleaned from mechanical impurities by squeezing it through a chamois leather. Another method is to place the mercury in a stout filter flask. A tube, connected to a water-tap is then arranged so that its lower end is beneath the metal. By passing a strong stream of water through the metal the coarse dirt, etc., is washed away. The water is poured off, and the mercury passed through a purifier. Grossly contaminated mercury is first agitated with 5/100 nitric acid in a filter flask by drawing air through rapidly for an hour or so before washing as above. The purifier consists of a stout glass tube 100 cm. long and about 2 cm. in diameter held vertically by clamps on a retort stand. The lower end of the tube is closed by a rubber bung through which is passed a piece of manometer tubing bent to form a siphon, its vertical limb being 13 cm. long and resting on a cork (or the apparatus may be blown in one piece). Enough clean mercury is poured into the tube to form a layer 5 cm. high. 5/100 nitric acid is added to a height of 90 cm. A glass funnel, about 6 cm. in diameter and connected by means of a

short piece of rubber pressure tubing to a fine glass jet, is placed in the open end of the tube with jet dipping below the acid. The dirty mercury is poured into the funnel. It falls as a stream of minute droplets, through the acid to the bottom of the tube. Mercury in siphon consequently rises, and overflows into a clean receiver. The column of mercury in the limb of the siphon balances the column of mercury plus the aqueous acid in main tube. Mercury combines with nitric acid to form a saturated solution of mercurous nitrate, which in turn reacts with metallic impurities in the falling droplets, and dissolves them as nitrates. After passage through the purifier, the mercury is placed a second time in the filter flask apparatus, and washed with tap water until free from acid; it is then shaken with distilled water and separated. To get rid of the last traces of moisture, when that is necessary, it is squeezed through chamois leather. Transparent adhesive tape is useful for removing specks of dust from surface of

Angosturas

Under the heading "Angosturas" your publication "Pharmaceutical Formulas, Volume 2," gives a recipe for a product that does not appear to me to be correctly placed among the bitters and liqueurs commonly consumed as beverages. My understanding lias always been that Angostura bitters is used as a flavouring for foods and drinks. Moreover, I was under the impression that the title was reserved to the manufacturers of the proprietary preparation under trade-mark law. May I have your comments?

YES. Angostura as applied to aromatic bitters has attracted some trade-mark rights for the Siegert organisation which, since 1820, has been manufacturing a product under that name, originally in Angostura, Venezuela, but since 1875 at Port of Spain. Trinidad. Angostura, as the name of the Venezuelan town where the product was made, was changed in 1846 to Cuidad Bolivar, in honour of Simon Bolivar, champion of the country's independence against Spain. The name Angostura also attaches, again for geographical reasons, to the bark of cusparia and in that sense the name is, of course, not the subject of trade-mark rights. Angostura bark contains a bitter principle and is included in the recipes we give. However, it is not the bitter principle used in the proprietary product (which, as the label discloses, is gentian). Close reading of the paragraph in "Pharmaceutical Formulas, Vol. II" shows that there is no claim or intention to give the formula of the proprietary product. Nevertheless, to avoid any possibility of misunderstanding. we are proposing to present the material rather differently in the next edition. We agree that the aromatic bitters are not strictly uniform with the other products in the chapter, and shall endeavour to overcome that difficulty also. You will appreciate, however, that to try and find an entirely descriptive chapter heading applicable to every product described therein would tend to make the reader's task of reference more difficult (by multiplying the headings), rather than easier (by grouping products-however loosely-under as small a number of titles as practicable).

PHARMACEUTICAL PRODUCTS IN URUGUAY

Britain not fully participating in expanding market*

URUGUAY, although the smallest South American republic with a population not exceeding 3 million inhabitants, is considered to be the leading welfare state of the Sub-Continent. Uruguay has no national system of health insurance; but public health requirements are catered for through Government hospitals and clinics distributed throughout the country, which come under the control of the Ministry of Public Health. In recent years there has also been an increase in the number of private health societies many of which have been set up by the larger industrial concerns for the benefit of their workers. Uruguay has always shown keen interest in taking full advantage of the benefits afforded by modern pharmacy with the result that her chemical and pharmaceutical industry is growing. Moreover, many important foreign firms now have local subsidiaries for the partial manufac-ture of medical preparations from imported raw materials and for packaging from imported bulk. Uruguay may therefore be considered an expanding market for pharmaceuticals which offers good business prospects. Unfortunately, however, import controls effect the volume of purchases and sources of supply.

For the year 1946 (the first complete post-war year) total imports of drugs and chemical and pharmaceutical products were valued at the equivalent of U.S. \$1,641,579. The following table shows how imports have progressively increased in subsequent years.

U.S. Year Year \$000's \$000's 1947 2,703 3,738 1953 1948 2,676 1954 6,348 1949 2,459 1955 4,770 1950 3,994 1956 4,011 1951 4,716 1957 6,013 1952 3,374

The United Kingdom is one of the countries which has not participated to any great extent in the gradual expansion of the Uruguayan market. West Germany on the other hand in 1957 supplied pharmaceuticals worth U.S. \$768,820 or twice that of the United Kingdom.

There are about twenty-five wholesale druggists in the country.

Other statistics are:—Chemists in Montevideo, 470; chemists in the interior, 540; doctors in Montevideo, 1,300; doctors in the interior, 900; dentists (total) 850.

Import Control

The source of supply is directly influenced by Uruguay's system of import control. Prior to August 3, 1956, all imports were subject to control on a quota basis, Up to and including 1954 the Export and Import Control Board allocated the amounts of foreign exchange available by supplying countries. The United Kingdom benefited by that system, reaching its peak of imports into Uruguay in 1954 with a total of U.S. \$1,064,980 or 16.8 per cent., of Uruguay's total imports of these commodities for that year. 1955 and 1956, however, the authorities fixed the total value of the goods to be imported which was then distributed in accordance with importers' demands. It soon became apparent that the demand was for North American, Swiss and West German products and that tendency continued after August 1956 when all first category imports (essential goods and raw materials) were freed from quota restrictions.

Because of a severe economic crisis, a serious foreign exchange deficit developed and the system of free import was suspended in November 1957 since when all imports have been restricted to the barest essential require-ments of the country. In the case of drugs and chemical and pharmaceutical products import quotas are now being opened to cover Uruguay's requirements for three monthly periods at a time. Exchange is separately allocated in two groups: for Group B countries, i.e., those countries (including the United Kingdom) with which Uruguay trades on a multilateral basis in transferable or convertible currencies, and for Group A countries which are those with which Uruguay has concluded bilateral payments agreements. In the case of group B countries the importer must obtain at least six months' credit

Group A countries include: France, East Germany, Bulgaria, Brazil, Czechoslovakia, Spain, Finland, Yugoslavia, Italy, Poland, Rumania, Switzerland, Israel, Hungary and U.S.S.R.; the Group B countries are those not included in that list.

The attention of the British exporter, however, is called to the possibility of "switching" which is officially sanctioned in certain cases. Under that system, goods from a group B country may be paid for in a group A currency, the importer having to pay extra charges to get the bilateral agreement currency concerned converted into the appropriate transferable currency. such cases, of course, the cost of the goods to the importer is increased considerably, and it should therefore be left to the importer to decide whether switching is commercially worth while.

Competition

The freeing of first category goods from quota control in 1956 resulted in fiercer competition from competitor countries, especially the United States. Switzerland and West Germany. reasons for this may be:

(a) The United States, Germany, Switzerland and France have been traditional suppliers of Uruguay.

(b) Those countries use very effective propaganda, principally in the form of trade literature supplied by the manufacturers for distribution to doctors and by a liberal distribution of free samples.

This support given by manufacturers to their representatives has attracted the most important representatives in the pharmaceutical line to their service.

(d) The establishment of local branches by important foreign manufacturers for local preparations from imported bulk.

The British manufacturers increased their interest in the Uruguayan market in the immediate post-war years obtaining a fair amount of success in competition with other traditional supply-ing countries. Unfortunately, however, Uruguay's present import restrictions and discrimination against group B countries make further progress in that direction very difficult.

No Government subsidy or other official support is granted to local manufacture. Protection, however, is afforded by customs tariffs which are extremely high on packed products, and by the limiting of imports of packed specialities.

Through legislation introduced in 1948 (Law No. 11015) and in 1951 (Law No. 11641) there is a price control on both imported and locally manufactured or packed specialities which is exercised by the Honorary Commission of the Control of Medicines appointed by the Ministry of Public Health. Importers and manufacturers are allowed to charge the pharmacist cost price (including duties and overheads) plus 20 per cent. and the pharmacist may sell at his purchasing price plus 48 per cent. Their respective profits are, therefore, 16.6 per cent. and 32:4 per cent. The importer and manufacturer must justify every increase in price to the honorary commission.

The Customs Tariff itself is complicated and lengthy. It is available for inspection in Tariff Section of Export Services Branch of the Board of Trade. The figures appearing in the Tariff Book described as "aforo" are the official values on which duties are calculated and are not the actual duties.

United Kingdom firms wishing to compete for Government tenders must work through a properly appointed local agent. No offers can be made direct from the United Kingdom. The local representatives must hold the power of attorney from his United Kingdom principals. He must be a person of sufficient financial and business reputation to command the respect of the entities with which he has to deal and he must be prepared to put up the financial deposits for guarantee of offer and fulfilment of contract required by tender conditions.

The Uruguayan Patent Law of December 12, 1941, in Art. 3 Part C, states that medicinal compounds and chemical products are not patentable discoveries or inventions. New processes used for their manufacture are, New prohowever, patentable.

As Uruguay does not adhere to the International Trade Mark Convention, it is essential for interested parties to effect local registration of any mark for which protection is required. Failure to do this can result in the registration of the mark by persons interested in making use of it for their own ends.

Propaganda

Although the quality of any product and its price are all important factors, the success enjoyed by any particular preparation is usually in direct relation

to the scale of advertising.

In the case of products sold only against medical prescription, public advertising is generally avoided as the medical profession is not disposed to prescribe products advertised in that way. Extensive canvassing of the medical product is essential and should be undertaken by competent representa-tives and the distribution of free samples is considered a "must" when introducing a new product and is widely practised.

In some cases the samples are supplied free by the manufacturer, the importer paying the duties, which are payable as for the regular product; in others, both the original cost and the charges are met by the importer; in other cases the manufacturer bears all

the costs.

A point which requires careful consideration, however, is whether the individual importer's financial means are sufficient to enable him to meet the cost of samples plus duties. If they are not, the successful introduction of the product may be prejudiced and in such a case it is well worth the manufacturer's while helping to defray such expenses.
Some importers complain that it is

difficult to convince United Kingdom manufacturers of the necessity of free distribution of samples. The American, Swiss and German manufacturers are fully alive to such necessity. It is essential to employ the Spanish language and most advisable that all the subject matter receive the approval of the local distributor. Labels should always be in

Spanish.

Poisons Regulations

(a) Poisons may be dispensed by chemists only against a doctor's prescrip-

tion in duplicate.

There are no restrictions of any kind on the import or export of poisons as far as the Health Authorities are concerned (except in so far as they must conform to legislation regarding imports and exports generally); but in accordance with a Law of September 7, 1937, the State has the monopoly of imports of cocaine, raw opium, and official extracts of opium, morphine, cocaine, hashish, and in general any such substances as have stupefying effect in a small dose.

(c) Poisons employed as insecticides, or in commerce, trades, or manufac-tures, must be "denaturalised," i.e., they must be identifiable through the addition of some potent colour-

ing matter.

(d) Containers employed for poisons must be absolutely proof against leaking, and be made of resistant materials. Paper or textile cloth packing are prohibited.

All containers of pure or "transformed " poisons (i.e., poisons which have been diluted by the addition of some harmless matter) must bear labels, either black or orange, upon which red or black letters must show very legibly the name of the poison; in addition a band indicating to the purchaser that the containers must be destroyed immediately after the con-tents have been used must be affixed.

No poisons may be stocked, sold or despatched where victuals are kept or sold.

The display of other than empty containers of poisons or the distribution or other than these for propaganda purposes is prohibited.

(h) All sales or purchases of poisons must be registered in books with counterfoils in which must be stated the name of the purchaser and the purpose for which the poison was acquired.

(i) No poisons may be sold to persons under eighteen years of age.

Each packet, bottle or other container of pharmaceutical products for free sale must bear on its label the authority of the Ministry of Public Health, registration number, descripnames of technical director and chemist, sale price and the words "Venta Libre." When specialities are only to be sold against a physician's prescription the container must be labelled accordingly. For the registration of new vegetable medicaments with which the Uruguayan medical services are not conversant a certified chemical reference must be presented with sufficient guarantees regarding the therapeutic qualities and doses. When application is made for the registration of foreign specialities, guarantees that the product has been authorised in the country of origin must be presented. All substances for injections must be contained in "neutral" glass ampoules with the name of the product engraved thereon.

The Division of Hygiene of the Ministry of Public Health concedes or refuses authority for the sale of products: catalogues specialities which may be prescribed by practitioners who are not doctors; classifies specialities for control, according to their nature, in three groups: (a) Specialities consisting of chemicals, and which have to be submitted to chemical analyses to verify the formulas in the chemical laboratory of the Ministry of Public Health; (b) specialities requiring biological and pharmaco-dynamic control which may be submitted to the study of the Institute of Pathology, Institute of Endocrinology or the Laboratory of Vitaminology and Nutrition of the Ministry of Public Health, during such time as the Ministry is not in a position to analyse them in its own laboratory; and (c) serums and vaccines, which may, in like manner, be sent to the Institute of Hygiene.

Before proceeding to test or to analyse the specialities, the Division of Hygiene may refuse to authorise the sale of the preparation if the latter, in their opinion, is objectionable, having defects in formulation or unjustified claims for results.

Every laboratory must be in the

charge of a pharmaceutical chemist The laboratories making biological products (hormone compounds, vitamins enzymes or micro organisms of fer mentation, serums, vaccines) must have in charge of that section a techniciar with a Uruguayan degree. The laboratories are inspected by the Ministry of Public Health, which may require for analysis samples of specialities offered for sale, as well as samples of the component parts. A new laboratory must notify the Ministry of Public Health of its opening, when it will be inspected. The cost of inspection is Ur\$60.00.

By a Decree (equivalent to an Act of Parliament) of October 1888 every pharmacy is obliged to keep the latest edition of the French Pharmacopæia. In June 1945 this official recognition was extended to the American (U.S.) Pharmacopæia. The Decree of 1888 did include, however, partial recognition of the B.P. and B.P.C. in as much as new dispensaries were authorised to buy drugs whose standards were covered by the B.P. For chemical drugs, analytical reactives and chemical products B.P. and B.P.C. labelling may be used. Although preference must be given to the French Pharmacopæia and the United States Pharmacopæia in matter of dispensing, when a required formula is not covered by these publications the B.P. and B.P.C. may be

* From a market report prepared by the Commercial Department of the British Embassy in Montevideo on behalf of the Export Services Branch, Board of Trade,

HERB CROP REPORT

THE following report has been received from Stafford Allen & Sons, Ltd.—The crop situation on our farms at Long Melford shows that this year has been the best for a long time. The weather, generally speaking, has been ideal for most of the herb crops. The individual

reports on each crop are as follows:—
Belladonna.—The warm dry weather has produced a good crop of first quality

CHAMOMILE.—Although the crop did not make quite so much growth, the yield of oil has been high.

CLARY SAGE.—An excellent crop with a good yield of oil.

pood yield of oil.
Digitalis.—The final weight of herb harvested may be a little light compared with other years. Nevertheless, with the abundance of sun, the leaf can be expected to be of high quality.

HYOSCYAMUS.—Again, there was not the bulk of herb, but the quality is good.

LAVENDER.—On the new plantations set out in 1958, there was a good show of flowers, and a good yield of oil was obtained. obtained.

PARSLEY.—The hot weather has been ideal for the parsley left for seed. There is no doubt that it will ripen off well, and a high yield of oil is expected.

PEPPERMINT.—A most successful crop, and the flowering mint made a wonderful picture. The yield and quality of oil is excellent.

POPPY PETALS.—We were able to make a reasonable collection of fresh petals.

N.H.S. STATISTICS

SHEFFIELD during 1958-59, 2,519,767 prescriptions were dispensed compared with 2,721,770 in 1954-58. Total cost was £699,155 (£678,070) an average of 66.5d. (59.78d.) per prescription.





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GLAXO LABORATORIES LTD GREENFORD MIDDLESEX BYRon 3434

Farex is available in most countries



She's making headway

She's telling many thousands of mothers (through the women's magazines) that fast growing bodies need the essential nourishment so well provided in FAREX. Pharmacists who benefit most from this campaign are those whose FAREX displays are bold, well placed and include the latest showcards and crowners. They're making headway...

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PACKS AND TRADE PRICES:

1 doz. x 10-oz cartons 12/10 2 doz. x 10-oz cartons 24/-(a Glaxo 'top-profit' parcel) Retail price 1/4

Stock up for the Winter demand! ANOTHER

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Available September 21st to October 3rd

The great success of our last Bonus Offer has been followed by the ever-mounting success of increased Bemax advertising in the national and provincial press, women's magazines and RADIO TIMES, with a combined circulation of approximately 40,000,000 copies. Such success encourages us to make this further Bonus Offer. Get your order in early. Make sure of your Bonus NOW!

STANDARD LIST PRICE

99/-

85/6

78/9

83/3

85/6

QUANTITY

96/-

81/9

75/-

79/6

81/11

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	BONUS TERMS	PROFIT
You, and	88/-	38/-
your	75/-	33/-
customers,	68/9	30/3
are bound	72/11	32/1
to benefit!	75/-	33/-

n.t 01	displays \
Window and counter	-ande
Window and Guines for BEMAX must	be made
for BEMAX must for at least 14 days	Display
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for BENITIZE for at least 14 days material readily a	is parcel.
material readily a included in Bonu	

PARCELS

6 dozen x 1/9 size

3 dozen x 3/- size

 $1\frac{1}{2}$ dozen x 5/6 size

2 dozen x 3/- size

 $\frac{1}{2}$ dozen × 5/6 size 1 dozen × 1/9 size $\frac{1}{2}$ dozen × 3/- size

 $\frac{1}{2}$ dozen \times 5/6 size

BX.I

BX.2

BX.3

BX.4

BX.5

ACT NOW Send your order immediately to: Sales Dept. (Ref. A.A.5) Vitamins Limited, Upper Mall, London, W.6

TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, SEPTEMBER 16: Although trading in all sections of the market was on a reduced scale during the week, prices generally were fully held and in some cases advanced through lack of supplies.

Chinese MENTHOL was quite firm business being done at previously advanced levels; subsequently 2s. per lb. more was asked for September-October shipment although business was not done at that figure. STYRAX was short on the spot and Turkey was reported to be unable to offer for shipment. Genuine TOLU BALSAM was also unobtainable on the spot and at origin but shipment offers are expected shortly. Kordofan GUM ACACIA advanced to 200s. per cwt. for the cleaned sorts against 192s. 6d. previously.

Shipments of SENNA from the port of Tuticorin during August were as

follows:-

	U.K.	U.S.	EUROPE
SENNA LEAVES PODS	44 7	30	156 172

Better demand and shrinking supplies have forced up both grades of CARNAUBA WAX.

Spot quotations for ESSENTIAL OILS were unchanged. In the forward position Madagascar CLOVE LEAF was down by three-halfpence per lb. while LEMONGRASS advanced tenpence halfpenny and Chinese PEPPERMINT, sixpence per lb.

It was reported that domestic CAF-FEINE was under strong pressure from

Continental manufacturers.

Pharmaceutical Chemicals

ACETANILIDE. — 1-cwt. lots are 2s. 10d. per lb. for crystals and 5-cwt., 2s. 9d.

ADRENALINE. — Rates for synthetic B.P. are from 1s. td. (500-gm. lots) to 1s. 6d. (10-gm.) per gm. and ACID TARTRATE, B.P., from 9d. to 1s.

Ammonium acetate. — 1-cwt. lots of B.P.C., 1949, are quoted at 4s. 5d. per lb.

ANTIMONY SALTS.—Quotations for POT-ASSIUM TARTRATE B.P., are 7s. 6d. per lb. for 1–10 cwt. and Sodium Tartrate, B.P., 12s. 6d.

ANEURINE HYDROCHLORIDE. — 1-kilo quoted at £11 15s. and 10-kilo lots at £11 7s. 6d. per kilo.

ASCORBIC ACID.—Rate per kilo: 1 kilo, £3 12s.; 10 kilos, £3 10s. SODIUM ASCORBATE is offered at the same prices.

ASPIRIN. — 5-cwt. lots are 4s. 9d. per lb.; 1-cwt., 4s. 11d. The CALCIUM SALT is 12s. 6d. per lb.

BENZOIC ACID.—1-cwt. lots are 2s. 11½d. per lb.; and SODIUM SALT is 2s. 9½d. per lb. in 1-cwt. lots.

BARIUM SULPHATE. — 250-kilo lots of B.P. (x-ray) are now 3s. $3\frac{1}{2}$ d. per kilo.

CALCIFEROL.—B.P. is 3s. 3d. per gm. for 1-kilo lots.

CALCIUM CARBONATE.—B.P. light precipitated powder, 1-ton lots, £33 per ton in free bags, ex works.

CALCIUM CHLORIDE. — B.P. crystals are ls. 3½d., and granulated, 10½d. per lb. in l-cwt. lots.

CALCIUM PANTOTHENATE.—Price per kilo is £9 12s. 6d.

CALCIUM GLUCONATE. — Quantities of cwt. and upwards are quoted at 3s. 6d.

per lb.; 1 cwt. to 2 cwt., 3s. 7d.

CALCIUM SUCCINATE. — Quotations are from 10s. 6d. to 12s. per lb., as to quantity. SUCCINIC ACID is from 10s. 6d. to 12s. 3d. per lb.

CARMINE. — Price is 70s. per lb. for 1-cwt. lots.

CHALK.—Prepared powder B.P., is £22 per ton for minimum 1-ton ex works.

CHLORAL HYDRATE. — In 1-cwt. lots the price is about 4s. 3d. per lb.

CHLORBUTOL.—28-lb. lots are quoted at 10s. per lb.

Chloroform.—1-cwt. lots in winchesters are 3s. $4\frac{1}{2}$ d. per lb.; 56-lb., 3s. 6d. In drums, prices are 3s. 2d. and 3s. $2\frac{1}{2}$ d. per lb. respectively.

CINCHOPHEN.—1-cwt, lots are quoted at 21s. per lb.

CITRATES. — Present rates (per lb.) for 1-cwt, and 5-cwt, lots are as follows:—

	1 cwt.	5 cwt.
SODIUM†	s. d. 2 10	s. d.
POTASSIUM†	3 1	2 111
IRON AND AMMONIUM*		$3 7\frac{1}{2}$
†Powder 3d, per lb. me	ore. *Scales	10d. per lb

Powder 3d. per lb. more. *Scales 10d. per lb. more.

Cyanocobalamin. — 25-gm. lots are £47 10s. per gm., and 1 gm., £50.

FOLIC ACID.—B.P. and U.S.P. are offered on the spot at 1s. 6d. per gm. for 1-kilo lots.

GLYCRRHETINIC ACID.—Per gm., 2s. 3d. GUAIACOLS.—LIQUID B.P. is 16s. 3d. per lb. for 28-lb. lots; CRYSTALS, 16s. 9d.; CARBONATE, 18s. 3d.

IODIDES. — (Per kilo). POTASSIUM, 50-kilo lots and over 15s.; SODIUM, 20s. 6d.; AMMONIUM, 45s.

IODINE.—Resublimed in 50-kilo lots or over, 23s. 1d. per kilo. Minimum delivered rate for CRUDE is 15s. per kilo.

Iodoform.—Powder is 22s. 4d. per lb. in 28-lb. lots; 21s. 8d. in 1-cwt. and 21s. 1d. in 5-cwt. lots. Crystals are 3s. per lb more than the powder.

ISOPRENALINE SULPHATE.—B.P. is 1s. 3d. per gm. for 1,000-gm. lots and 1s. 9d. per gm. for 100gm. lots.

KAOLIN.—In 1-cwt. bags LIGHT is quoted at 60s. per cwt, and 1-ton lots at 57s.

LEAD ACETATE.—B.P. crystals are 200s. per cwt. and technical, 180s.

Mandelic acid.—In 1-cwt. lots the price is 12s. 6d. per lb., with the Calcium salt also 12s. 6d. Sodium mandelate is 13s. and ammonium mandelate 50 per cent. solution, 7s. 6d.

MENAPHTHONE. — B.P. is £8 per kilo; ACETOMENAPHTHONE, B.P., £8; WATER-SOL-UBLE (menadione sodium bisulphite, U.S.P.), £9 per kilo.

METOL. — In 1-cwt. lots the price is 24s. 6d. per lb.

METHYL SALICYLATE. — Five-ton lots are 3s. per lb.; 1-ton, 3s. $0\frac{1}{2}$ d.; 10-cwt., 3s. 1d.; 5-cwt., 3s. 2d.; 1-cwt., 3s. 3d.

NICOTINAMIDE.—Prices per kilo are now: 1 kilo, 65s.; 10 kilos, 62s.; 50 kilos, 61s.

NICOTINIC ACID.—Prices per kilo are 43s. for 1-kilo and 40s. for 50-kilo lots.

NIKETHAMIDE.—Price per kilo is 100s.

OLEIC ACID.—B.P. grade £170 10s. per ton (£174 10s. single drum lots); 1 gall. tins 21s. per gall.

OXALIC ACID.—Manufacturers' rates for 1-ton lots are from £128 10s, per ton, delivered in free kegs.

PARALDEHYDE. — B.P. in 12-winchester lots is 2s. 7d. per lb.; 10-gall. carboy, 2s. 2d., drum lots, 166s. per cwt.; technical, 149s. per cwt.

PHENACETIN. — In 5-cwt. lots makers' price is 6s. 8d. per lb.; 1-cwt. 6s. 9d.

POTASSIUM THIOCYANATE.—One-cwt. lots are 5s. 6d. per lb.

POTASSIUM PERMANGANATE, — Current rate for B.P. material for 1-cwt. lots is 1s. 11\frac{1}{4}d. per lb. Technical is 209s. per cwt. and £198 per ton. [Corrected note.]

Pyridoxine. — Manufacturers' rate for 1 kilo is £75 per kilo; 10 kilos, £72 10s.

RESORCINOL.—1-cwt. lots are now quoted at 12s, 4d, per lb, by manufacturer [corrected note].

RIBOFLAVINE. — 1-kilo is £13 17s. 6d.; 10-kilo lots, £13 10s. per kilo.

ROCHELLE SALT. — Rates (per cwt.) for powder or granulated material are as follows:—In 5-cwt. lots or over, 200s. per cwt.; 1-cwt., 202s. 6d. SEIDLITZ POWDER, ordinary strength is 170s. 6d. per cwt. in 1-cwt. lots; smalls, from 2s. to 2s. 3d. per lb.; Extra strong is 172s. 6d. per cwt., and from 2s. 1d. to 2s. 4d. per lb. for small quantities. Double-strength is 180s. per cwt.; smalls, 2s. 2d. to 2s. 5d. per lb.

SACCHARIN.—In lots of 1 lb. and over B.P.C. powder is quoted at 99s. 10d. per lb., the SODIUM SALT is 80s. 10d. per lb. Prices include duty and carriage.

SALICIN.—Quoted at 17s. 6d. per oz.

SALICYLAMIDE.—Price per lb. for 1-cwt. lots is 8s. 6d.

Salicylic acid.—Prices are now: 5-cwt. lots in bulk, 3s. $0\frac{1}{2}d$. per lb.; 1-cwt. 3s. $2\frac{1}{2}d$.

SEMICARBAZIDE HYDROCHLORIDE.—Technical grade is 15s. 8d. per lb. for 1-cwt. lots.

SILVER SALTS. — PROTEIN, 36s. 3d. to 42s. 9d. per lb.; VITELLIN from 68s. 6d. to 76s. 6d. per lb. as to quantity.

SULPHOCARBOLATES.—SODIUM PHENOSUL-PHONATE, B.P.C., 1949 (powder) is 5s. 6d. per lb. in 1-cwt. lots and ZINC, B.P.C., 1949, is 5s. 6d.

TANNIC ACID.—The B.P. levis, ex ether is quoted at 10s. per lb. for 1-cwt. lots. The B.P. powder is 9s. 6d. per lb. in 1-cwt. lots.

TEREBENE. — For 1-carboy lots, 4s. 2d. per lb. is asked. In winchesters, prices are 15s. 9d. per lb.; 28-lb., 14s. 6d.

TERPIN HYDRATE. — Prices are from 6s. per lb. upwards as to quantity.

TERPINEOL. — Prices of B.P. grade are from 3s. to 3s. 6d. per lb. as to quantity.

THEOBROMINE. — ALKALOID is about 27s. 6d. per lb.

UREA. — Manufacturers' rates for pharmaceutical grade are £63 per ton in 1-cwt, bags non-returnable. Technical quality is £44 los, per ton.

VITAMIN A.—Synthetic. Supplied in concentrate 1 million international units per gm. as acetate or palmitate the price is 91d, per million i.u.

VITAMIN D₂.—In oil, 2 million units per gm, the price is 2d. per million international units. Crystalline: see under calciferol.

VITAMIN E (synthetic). — TOCOPHERYL ACETATE, B.P.C., 25 gm. to 100 gm., 1s. per gm.; 100 gm. to 1 kilo, 10d. per gm.; 1 kilo and under 10 kilos, £36 per kilo; 10 kilos, £35 10s. per kilo. Equivalent prices for unesterified are: 1s. 1d. and 11d. per gm. and £40 and £39 10s. per kilo.

Crude Drugs

Aconite. — Spot supplies of Spanish napellus are 2s. 6d. per 1b.

AGAR.-Kobe No. 1 is 11s. 6d. per 1b., in bond, and for shipment, 11s., c.i.f.

ALOES. — Cape primes, spot, 180s. per cwt. and shipment, 165s., c.i.f. Curação, 500s., spot.

Areca.—Selected round nuts, 125s. per cwt., spot.

BALSAMS. — Quotations per lb. are:— CANADA: Spot, 22s. COPAIBA: Para from 7s. 6d. duty paid: PERU: Spot, 10s. in bond. Tolu (genuine as imported): spot cleared and B.P., 14s. 3d.

BELLADONNA.—Herb is 8s. 3d. per lb. on the spot. Root is 1s. 6d. spot; shipment, 1s. 3d. c.i.f.

Benzoin.—Sumatra block on the spot is £22 to £28 as to quality.

BUCHU.—Spot rounds are 4s. 3d. per lb. and new-crop for shipment, 4s., c.i.f.

CALABAR BEANS.—Spot offering at 1s. 7½d. per lb.

CALAMUS.—Root is quoted at 1s. 2d. per lb., c.i.f.

CALUMBA.—Root is 105s. per cwt., spot. CAMPHOR.—B.P. powder is 3s. 7½d. per

Capsicums. — East African are from 140s. to 175s. per cwt, on the spot.

Cardamoms. — Aleppy greens, spot, 14s. 6d. per lb.; prompt shipment, 13s. 9d., c.i.f. Seeds, shipment, 20s., c.i.f. - Shipment, 275s., per cwt., Cascara. c.i.f.; spot 295s.

CHERRY BARK.—Thin natural is 1s. 51d. per lb., and rossed is 1s. 11d.

CINNAMON.—Ceylon for September (c.i.f.) per lb.; OOOO, 6s. 1d.; OOO, 5s. $8\frac{1}{2}$ d.; OO, 5s. $6\frac{3}{4}$ d.; seconds, 4s. $3\frac{1}{4}$ d.; featherings, 2s. $0\frac{1}{4}$ d.; quillings, 3s. 7d.; chips, ings, 2s 1s. 3¹/₄d.

CLOVES. — Zanzibar on the spot are 2s, 11d. per lb.; shipment, 2s. $6\frac{3}{4}$ d., c.i.f. Cocillana.—Bark is 2s. per lb. on the spot.

COLOCYNTH PULP.—Spot, 2s. 9d. per lb. Digitalis Leaf.—Purpurea from 1s. 2½d. to 2s. 7d. per lb., c.i.f.

ELEMI. — Spot from 1s. $10\frac{1}{2}$ d. per 1b. shipment, 1s. 7d., c.i.f.

Ergot. — Portuguese, 5s. 6d. per lb.; East European not offering.

Frangula.—Spot is 105s. per cwt.

GENTIAN. — Spot: French, 160s. per cwt.; Jugo-Slavian, 152s. 6d.

GINGER. — African, 115s. per cwt. spot and 112s. 6d., c.i.f. Jamaican No. 3, spot, 195s. and shipment, 180s., nominal, c.i.f. Cochin spot quoted 135s.; shipment, 140s., c.i.f.

GUM ACACIA.—Kordofan cleaned sorts are 200s. are 200s. per cwt. on the spot; September-October shipment, 190s., c.i.f.

HENNA.—Indian on the spot is now 95s. per cwt., ex wharf.

HONEY. — Australian light amber is 102s. 6d. to 105s. and medium amber 95s. to 97s. 6d. Argentine, 100s, to 105s.; Jamaican, 115s. to 120s.; New Zealand clover, 170s., nominal; all per cwt. on the spot.

Hydrastis.—Spot, 23s. per 1b.

IPECACUANHA. — Shipment (c.i.f.). No offers from Brazil or Colombia, Nicaraguan, 69s. per lb.; Costa Rican, 70s. Spot Matto Grosso, afloat, withdrawn at 53s.,

Karaya. — No. 1 gum on the spot is quoted at 260s. per cwt. nominal, No. 2 at 230s., nominal.

Kola NUTS. — Jamaican spot market cleared, shipment, 7d. per lb., c.i.f. African, 5d. to 5¼d. spot and 4d., c.i.f.

LANOLIN. — ANHYDROUS, B.P. is from

170s. to 175s. per cwt. in 1-ton lots and HYDROUS, B.P., 150s., free drums, delivered.

LYCOPODIUM.—Triple-sifted, 30s. per lb.,

MACE.—Whole pale blade 23s. 6d. per lb. on the spot.

MENTHOL.—Chinese spot, cleared. Business done afloat at 52s., c.i.f., and September-October shipment, at 50s. 6d. per lb., c.i.f. Brazilian 41s. in bond.

NUTMEGS.—West Indian 80's 17s. per lb., spot; sound unassorted, 10s. 6d.; defectives, 8s. 6d.

Nux vomica. — Scarce. Shipment, 125s. per cwt., c.i.f., quoted.

Orange Peel. — Spot: Sweet ribbon, 2s. per lb.; bitter quarters: West Indian, 1s.; Spanish, 1s. 7d.
Orris Root. — Florentine is 345s. per

PEPPER. — Firm. White Sarawak spot 3s. 3½d. to 3s. 4½d. per lb.; September—October shipment is 3s. 3d., c.i.f. Black Sarawak on spot is 2s. 1d. per lb. with shipment higher at 2s. 2½d. per lb.

PEPPERMINT LEAVES.—Dutch, 2s. 2d. to 2s. 10d. per lb., c.i.f.

PIMENTO.—Spot value is 550s. to 560s. ner cwt.

Podophyllum.—*Emodi* is 200s. per cwt., spot, and 195s., c.i.f.

Pyrethrum.—Extract, minimum 25 per cent. w/w pyrethrins, is 75s. per lb. for small lots.

QUASSIA.—Spot offers are 55s. per cwt., ex wharf.

QUILLAIA.—Spot offers of whole bark at 125s. per cwt.; cut, 160s. Whole for shipment, 90s., c.i.f.

RAUWOLFIA.—Canescens, 3s. 6d. per lb., c.i.f.; Vomitoria, 2s. 3d., c.i.f.; Serpentina, 6s., c.i.f. asked.

RHUBARB. — Chinese small rounds 6s. $4\frac{1}{2}$ d. to 6s. 9d. on the spot.

SAFFRON. — Spanish is quoted at 200s.

SARSAPARILLA.—Jamaican native red on the spot is 2s. 6d. per lb. Shipment, 2s. 4d., c.i.f.

SEEDS. — (Per cwt.). ANISE. — Spanish, 162s. 6d.; Turkish, 135s., both duty paid. CARAWAY.—Dutch unchanged at 117s. 6d., duty paid. CELERY.—Indian, 147s. 6d. on spot; shipment unchanged at 120s. 6 if Coriander.—Moroccan on spot quoted at 45s., duty paid. September shipment, 35s., c.i.f. CUMIN.—Firm. Iranian, 270s., duty paid. September—October shipment, 225s., c.i.f. DILL.—Indian is 80s. on spot; shipment, 70s. quoted c.i.f. Fennet.—Chinese only available or spot at 130s. only available on spot, at 130s., duty paid. FENUGREEK. — Moroccan 40s., duty paid. MUSTARD.—English (new crop), 72s. 6d. to 105s., according to quality.

SENEGA.—Spot is nominally 20s. per lb.; shipment, not offering.

SENNA. — Timevelly LEAVES, prime No. 1, 1s. 5d. per lb., f.a.q.; No. 3, 10d. Pods: Manufacturing (f.a.q.), 1s. 3\frac{1}{2}d. and hand-picked, 1s. 9d. to 2s. 2d. Alexandria pods: Manufacturing, offered from 1s. 6d. with hand-picked from 4s. to 6s. 6d.

STYRAX.—Very short on spot; shipment, nominally 25s. 6d. per lb., c.i.f.

Tonquin Beans.—Para on the spot are offered at 8s. 3d. per lb. Angostura, 11s. Tragacanth. — No. 1 ribbon is £115 per cwt. No. 2, £105.

TURMERIC. — Madras finger on spot is 105s. per cwt. for old crop; current crop, 110s. Shipment is 95s., c.i.f.

Waxes. — (Per cwt.). Bees'.—Dar-es-Salaam, spot. 480s.; shipment, 465s., c.i.f. Abyssinian, spot 410s. in bond; shipment, 404s., c.i.f. Benguela, shipment, 405s., c.i.f. Candelilla.—Spot 450s. Carnauba.—Fatty grey spot, 590s.; for shipment, 590s., c.i.f. Prime yellow, spot, 900s.; shipment, 890s., c.i.f.

Essential and Expressed Oils

Almond. — Moroccan, 6s. 6d. per lb., duty paid.

AMBER.—Rectified on the spot is 1s. 6d. per lb. ANISE.—Chinese, 8s. 1½d. per lb., spot; shipment, 7s. 11d., c.i.f.

Cassia.—Spot is 13s. 9d. per lb.; shipment, 13s. 5d., c.i.f.

CINNAMON. -- From quillings, best English-distilled is 50s. per oz.; other B.P. oils from 165s. per lb. Ceylon leaf, spot, 9s. 9d. per lb.; rectified, 15s, per lb.; Seychelles, 8s. 6d., spot.

CITRONELLA. — Ceylon, spot is cleared: shipment, 5s. 4½d., per lb., c.i.f. Formosan, spot 5s. 9d. in bond, shipment 5s. 3½d., c.i.f.

CLOVE.—Madagascar leaf, spot, 9s. 6d. per lb. duty paid; shipment, 8s. 6d., c.i.f. Rectified 87–88 per cent., 8s. 6d. Distilled bud oil, English B.P., 30s. to 31s.

GINGER. — English-distilled oil is 160s, per lb. Imported: Jamaican, 130s.; Chinese, 72s. 6d., duty paid.

Grapefruit, — Jamaican, 15s. per lb. spot. Florida, 14s. 6d. spot.

JUNIPER. — B.P.C. 1949 oil is from 12s. 6d. per lb. on the spot. English-distilled, 180s. JUNIPER WOOD, from 5s.

LEMON.—B.P. grades from 16s, to 26s, per lb, on the spot. Californian for shipment, 25s, to 28s, 6d., c.i.f. Terpeneless, 500s. per lb.

LEMONGRASS. - Spot 8s. per lb., and shipment, 7s. 10½d., c.i.f.

Orange.—Spot quotations of sweet oil include Floridan at 6s. 6d. per lb.; Californian, 10s.; West Indian, 7s.; West African, 14s.; Israeli, 12s. 6d. Terpeneless is 200s. per lb., spot.

PEPPERMINT.—Arvensis: Chinese is 27s. per lb., spot nominal: September—October shipment 24s., c.i.f. Brazilian 10s. 9d. to 11s. 3d. both spot and shipment, Piperita: Italian "Mitcham-type" from 42s. 6d. to 48s. 6d.; American, 27s. 6d. to 30s., as to origin.

PIMENTO. — English-distilled berry is 167s. 6d. per lb.; imported, 77s. 6d. Rectified leaf, 27s. 6d. per lb. for small lots.

PINE.—Pumilionis on the spot is 16s. per lb.; sylvestris, 25s.; Siberian (abietis), 14s.

SAGE.—Spanish is 10s. per lb.

SANDALWOOD.—Mysore spot 87s. 6d. to 89s. per lb. East Indian, 89s. to 92s. per

Sassafras.—Brazilian is from 3s. 6d. per lb., duty paid.

SPEARMINT.—Offers of U.S.P. grade are from 37s. 6d. per lb., spot. Chinese 32s., in bond.

Tangerine.—Hand-pressed is 55s. per lb. and machine-pressed, 42s. 6d.; others 26s. to 28s. on the spot.

VETIVERT.—Spot is currently at about 100s. per lb.

UNITED STATES REPORT

NEW YORK, SEPTEMBER 15: GLY-CERIN is to be advanced $1\frac{1}{2}$ cents per lb. on October 1 by the Shell Chemical Corporation. The advance represents the first price move in glycerin since August 1956. Meanwhile among FINE CHEMICALS STRYCHNINE remains firm, reflecting a tight supply position in the world market. In CRUDE DRUGS a little more interest is being shown in Lyco-PODIUM for export. Unlike the position a year ago, Essential Oils and Aro-MATIC CHEMICALS display a generally firm tone. The outlook in LEMONGRASS is regarded as strong as a result of limited offerings from India.

TRADE MARKS APPLICATIONS ADVERTISED BEFORE REGISTRATION

From "The Trade Marks Journal," August 26 For sanitary substances, disinfectants and deodorants, all in the form of blocks, for use in water closets, sinks and in refuse bins (5)

BINAK, 788,605, by Flush Chemicals, Ltd., Liverpool, 24.

For pharmaceutical preparations of aspirin in

tablet form (5) ULTRAPRIN, 784,930, by Wallace Cameron

& Co., Ltd., Glasgow, C.2, and Haylor, Furst Ltd., Glasgow, C.5. For sterilising agents for biological preparations

BETAPRONE, 784,964, by Testagear & Co., Inc., Detroit, Michigan, U.S.A.

For pharmaceutical preparations for use in the

treatment of the feet (5)

KWIK-STEK, SPED, 784,970-71, by Boots Pure

Drug Co., Ltd., Nottingham.

For pharmaceutical preparations for the treatment of diseases of the heart and of the blood circulation (5)

SOLOSIN, 785,064, by Curta & Co., G.m.b.H., Frankfort (Main)-Fechenheim, Germany. For pharmaceutical and veterinary preparations

and substances all containing enzymes (5) DONNAZYME, 784,481, by A. H. Robins Co.,

Ltd., London, E.C.3.

For preparations for killing weeeds (5)

TRAPON, 789,097, by Profarma, Ltd., Wisbech, Cambs.

For sun spectacles (9)

LIDO, B786,973, by F. W. Woolworth & Co., Ltd., London, W.1.

cameras, lenses, optical instruments and parts (9)

FUJICA, 787,447, by Fuji Shashin Film K. K., Ashigara-kamigun, Kanagawa Prefecture, Japan. For stockings and non-medicated socks (for wear) all for surgical or curative purposes (9)

PRETTY POLLY, device with wording PRETTY POLLY, PRETTY POLLY TRUSUPPORT, 783,507-09, by Pretty Polly Hosiery Mills, Ltd., Sutton-in-Ashfield, Notts.

For photographs, mounts for photographs, photograph albums, photographic prints, etc. (16)
Device of the letter "h," B781,3116, by Alan

Hall, Ltd., Uxbridge, Middlesex. For tubing made of rubber latex prepared for use

In medical and surgical instruments and for laboratory use (17)

INGRAMS ELASTUBE, INGRAMS SUPATUBE, B776,101-02, by J. G. Ingram & Son, Ltd., London, E.9.

For vacuum flasks (21)

Device with word EAGLE, 773,959, (no right to exclusive use of word "Eagle"), by Eagle Mahobin K.K., Osaka, Japan.

From the "Trade Marks Journal," September 9 For chemical products for use in industry, science

and photography, etc. (1)
THERMOBOR, 776,572, b
dated, Ltd., London, S.W.1. by Borax Consoli-

For photographic dry plates, photographic films, and photographic paper, all being sensitised, and photographic chemicals; all being goods for use in colour photography (1)

ILFACOLOR, 787,579, by Ilford, Ltd., Ilford, Essex.

For non-medicated toilet preparations for men (3) OVERNIGHTER, B772,144, by Lentheric, Ltd., London, W.1

For all goods included in Class 3 being for export to and sale in the Dominican Republic, Haiti, Jamaica and Panama, but not including starch or blue (3)

Device with word SHELL, 779,558, SHELL, 779,570, by Shell Co. (West Indies), Ltd., London, E.C.3.

For non-medicated toilet preparations and cosmetic preparations (3)

DEWISHEN, 783,497, by Hans Schwarzkopf, Hamburg-Altona, Germany.

For preparations for use in cleaning artificial dentures (3)

Device with letters and numerals CD-60, 783,790, by Stafford-Miller, Ltd., Hatfield, Herts. For hot-water bottles (21)

NUSTAR, 786,804, by William Freeman & Co., Ltd., Barnsley, Yorks.

For non-medicated toilet creams (3)

SEVEN WONDERS, 785,032, by Revlon, Inc., New York, U.S.A.

For non-medicated toilet preparations in jelly form for the skin (3)

MEDIJEL, 785,958, by D.D.D. Co., Ltd., Watford, Herts.

For preparations for tinting the hair (3)

KOL-ES-TINT, 786,330, by Wella Rapid, Ltd., London, N.W.1.

For cleaning preparations (3)

GAYCLENS, B787,889, by Lee & James, Ltd., Bridgtown, Staffs.

For non-medicated toilet preparations, cosmetic preparations, brilliantine, perfumes, soaps, face powders (non-medicated), lipsticks, hair-lotions, shampoos, dentifrices, nail lacquers, essential oils for use as bases in perfumes and in the manufacture of toilet and cosmetic preparations, and toilet articles (not included in other classes) (3)

RUE DE LA PINK, 789,188, by Coty (England), Ltd., London, W.1.

For cleaning preparations for laundry and domestic purposes (3)

GERMODA, 789,348, by Easi-Life Products, Heywood, Lancs.

For toilet soap and perfumed soap (3)

QUEEN OF SCOTS, 789,369, by Soaps & Detergents, Ltd., Edinburgh, 6.

For all goods (5)

DAXAIDS, 771,762, by Chas. Pfizer & Co., Inc., New York, U.S.A. ACTIFED, 785,672, by Wellcome Foundation, Ltd., London, N.W.1. FLOZIDE, 787,420, by Glaxo Laboratories, Ltd., Greenford, Middlesex. BECOMEL, 787,522, by Crookes Laboratories, Ltd., London, N.W.10. EMIGRAL, 788,236, by Calmic, Ltd., Crewe, Ches.

For pharmaceutical, veterinary and sanitary substances and disinfectants; and preparations for killing weeds and destroying vermin; insecticides, larvicides and fungicides; and insecticide papers; all being for export to and sale in the Dominican Republic, Haiti, Januaica and Panama, but not including mustard oil or preparations containing mustard or any goods of the same description (5)

Device with word SHELL, 779,560, SHELL, 779,572, by Shell Co. (West Indies), Ltd., London, E.C.3.

For pharmaceutical, veterinary and sanitary substances and disinfectants; and preparations for killing weeds and destroying vermin; insecticides, larvicides and fungicides; and insecticide papers; all being for export to and sale in Puerto Rico; but not including mustard oil or preparations containing mustard or any goods of the same descrip-

Device with word SHELL, 780,165, SHELL, 780,166, by Shell Co. (Puerto Rico), Ltd., London, E.C.3.

For pharmaceutical, veterinary and sanitary substances; and disinfectants, preparations for killing weeds and destroying vermin, insecticides and fungicides, but not including infants' and invalids toods (5)

DOMESTOS, 781,375, by Domestos, Ltd., Newcastle-upon-Tync, 6,

For veterinary preparations (5)

STREPTOSUL, 782,264, by Crookes Laboratories, Ltd., London, N.W.10. For insecticides for killing moths (5)

KILL-O-MOFF, B782,725, by James McKee & Co., Ltd., Chalfont St. Giles, Bucks.

For sulphonamide preparations containing azoles being for pharmaceutical use in the treatment of intestinal disorders (5)

TALISULFAZOL, 783,727, by Veb Farben-fabrik Wolfen, Wolfen, Bitterfeld, Germany. For pharmaceutical preparations containing lactobacillus acidophilus for the treatment of intestinal disorders (5)

PROPHYL, 785,455, by Howard Lloyd & Co., Ltd., London, S.W.1.

For pharmaceutical preparations in tablet form for the treatment of disorders of the cardiovascusystem, all being goods for sale in the United Kingdom (5)

TARDILE, 785,796, by Bayer Products, Ltd., Kingston-on-Thames, Surrey.
For fungicides for agricultural use and being for

application to seeds (5)

HEPTASOL, 786,819, by Bayer Agriculture, Ltd., London, S.W.1.

For still cameras (9)

SPORTI, 788,379, by Ilford, Ltd., Ilford, Essex.

For pharmaceutical preparations and substances tor human use; and sanitary substances and disinfectants (5)

MYCOPAX, 786,866, by Imperial Chemical Industries, Ltd., London, S.W.1.

TELEVISION

Programme details are given to enable chemists to put in linking-up displays if they wish. Figures in the columns represent number of appearances of the product during the week.

September 27 to October	3	London	Midland	North	Scotland	Wales	South	Z.E.
Alka-Seltzer		1	2	2	-	1	2	2
Anadin	٠.	3	3	2	3	3	3	3
Aspro		4	3	3	4	4	3	3
Astral soap		—	-		_	3	—	3
Ayrton's antiseptic cre-	am	_		_	2	_	_	_
Beecham's powders		2	2	2	1	1	1	2
Binki pants		_	-		_	_	_	3
Bisodol		3	—	_	4	_	_	—
Bristow's lanolin shamp		2	3	2	_	_	2	_
California syrup of figs		_	1	1	1	_	_	
Cephos				3		-	_	_
Christy's lanoline face pa		1	2	1	1	1	1	1
Cooper's acrosols		2	2	2	2	2	2	2
Cuticura		2		_		_	_	_
Damaskin		1	1		_	_	_	_
Euthymol tooth-paste		1	1	1	1	1	_	_
Formula 21		3		3	3	3	3	3
Germolene		1	1	_	1	1	1	1
Gibbs' S.R. tooth-paste		3	3	3	2	4	3	3
Imperial Leather		3	2	2	3	_	_	3
Knights Castile soap		_		_	2	2	1	2
Loxene shampoo		2	2	2	2	2	2	2
Macleans tooth-pastc		3	3	4	3	3	2	3
Marigold baby pants		_	_		_	1	_	_
Max Factor preparation		3	3	3	2	2	3	3
Milk of Magnesia		1	1	1	1	1	1	1
Milk of Magnesia tabl		_	_		3	_	2	2
Phensic		3	3	3	3	3	3	3
Phillip's tooth-paste		1	_	_	_	_	_	_
Phosferine				-	1		1	_
Phyllosan		1	_	-	_	_	_	_
Polly Roll		1	_	_	1	_	1	1
Ponds		2	2	2	2	2	2	2
Remington shavers		3	1	2	3	2	2	4
Ribena		_	1	-	_	1	_	-1
Rinstead pastilles		_		_		_	1	_
Rivella		5	_		-	_	_	_
Sebbix shampoo		_	1	-	3	_	1	_
Setlers		1	1	1		1	1	1
Silvikrin shampoo		_	_	_	-	1	1	1
Sun Orange Quosh		_	_		_	1	_	_
Valderma balm		3	3	3	1	2	_	_
Veno's cough mixture		3	3	3	3	3	3	3
Vosene		3	3	3	2	5	_	8
Yeast-Vite		_	1	1	_	_	-	_

COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

Monday, September 21

BRITISH PHARMACEUTICAL CONFERENCE, Bournemouth. (Until September 25.) Detailed programme on p. 191.

PHARMACISTS' WALLASEY ASSOCIATION BRANCH, PHARMACEUTICAL SOCIETY, Wellington hotel, at 8 p.m. Film show.

Tuesday, September 22

MEDWAY BRANCH, PHARMACEUTICAL SOCIETY, All Saints hospital, Chatham, at 7.45 p.m. Dr. Azzopardi on "Anæsthetics Past and Present." OLDHAM BRANCH, PHARMACEUTICAL SOCIETY, West Street car park, at 2 p.m. Bolton pricing bureau visit.

Thursday, September 24

PURCHASING OFFICERS' ASSOCIATION, hotel Metropole, Folkestone, at 11 a.m. Annual conference and exhibition.

Friday, September 25

SOUTHEND-ON-SEA BRANCH, PHARMACEUTICAL CIETY, Imperial hotel, Westcliff Parade, Westcliff-on-Sea, at 7.45 p.m. Ladies' night.

PRINT AND PUBLICITY

Price Lists

Aspro-Nicholas, Lto., 225 Bath Road, Slough, Bucks: August.

BENGUE & Co., Lto., Mount Pleasant, Alperton, Middlesex: September 1, 1959. CIBA LABORATORIES, LTD., Horsham, Sussex:

Pharmaceutical preparations, June.

FOSTER-MCCLENNAN CO., 58B Wells Street, London, W.1: Doan's preparations. August 1. JEYES-IBCO SALES, LTO., River Road, Barking, Essex: July.

LEGERLE LABORATORIES DIVISION, CYANAMIO OF GREAT BRITAIN, LTO., Bush House, Aldwych,



SHOWCARD: Euthymol tooth-paste showcard No. 716 issued by Parke, Davis & Co., Ltd., Staines Road, Hounslow, Middlesex.

London, W.C.2: Replacement pages for price list, June 1.

Medical Propaganda

Manufacturers' leaflets, folders, booklets, etc., directed to doctors but available to pharmacists. British Schering, Ltd., 229 Kensington High Street, London, W.8: Albucid drops and ointment (information card).

CIBA LABORATORIES, LTO., Horsham, Sussex: "Millicorten" (8-p. booklet), "Serpasil-Es drex " (4-p. folder).

PARKE, DAVIS & Co., LTD., Hounslow, Middlesex: Chlormytol ointment (information card). PHARMACEUTICAL SPECIALITIES (MAY & BAKER), LTD., Dagenham, Essex: "Otamidyl" (blot-ter), "Streptotriad and Thalazole" (4-p. folder).

Roche Products, Ltd., 15 Manchester Square, London, W.1: "Asterol in tinea pedis" (blotter).

ROUSSEL LABORATORIES, LTD., 847 Harrow Road, London, N.W.10: "Amenorone Forte" (6-p. folder).

C. & D. WEEKLY LIST OF PRICES

A=Advanced; R=Reduced; I.R.P.= Inclusive Retail Price; *=Tax 25 per cent.; †=Tax 50 per cent. SAVORY & MOORE, LTD. (from October 1) C: 1: Doz.

I.R.P. 5 0 A 45 0 Belcroy feeder WEST PHARMACEUTICAL CO., LTD. (from September 1)
Tabalgin tablets 75 0 R 100

Each

27 9 R

500 P.A.T.A. LIST

(Alterations notified this week by the Proprietary Articles Trade Association.)

KNOLL, LTD. (from September 1) Bromural tablets* Do Doz. gr. 5 20 3 10½ R 18 2½ R Calcium-Diuretin tablets 138 0 gr. 7½ 20 200 160 0 Cardiazol tablets gr. 1½ 10 29 0 R liquid 10 per cent. ampoules 10 per cent. 27 0 34 0 A 3 133 0 A 14

Cardiazol-ephe	drine tal	blets						
		10	29	0	R	3	3	
		100	232	0	A	25	9	
drops	10	c.c.	31	6		3	6	R
	100	c.c.	232	0	\boldsymbol{A}	25	6	
	1·1 mils	6	34	0	A	3	9	
Dicodid tablets	s					_		
gr	. 1/13	10	24	0		2	8	R
		100	120	0		13	4	R
(new size)	500	480	0		53	4	
	gr. 1	10	33	0		3	8	R
		100	162	0		18	0	R
	new size)	500	648	0		72	0	
Dilaudid table	ts							
gr	. 1/25	100	90	0		10	0	R
(r	new size)	500	405	0		45	0	
ampoules	gr. 32	4	29	0	R	3	0 3 0	
	gr. 16	4	45	0		5	0	R
		40	381	0		42	4	R
Iod-calcium-D	iuretin ta	blets1	ķ					
	gr. 9	20	25	3		3	31	R
Papaverine tab	lets (new	')					_	
	gr. 2/3	20	22	6		2	6	
		250	247	6		27	6	
Paracodin table	ets* (new)						
	gr. 🗧	20	30	0		3	111	
syrup* (new)								
	4	oz.	42	0		5	61	
Styptol tablets	gr. 3	20	28	0		3	8	A

RE-INSTATEMENT TO THE LIST AERO-PED, LTD. (distributors, CHRISTY & CO., LTD.) Aero-Ped P.M.N. foot ointment 20 0 powder 24 0 THOS. 2 0 powder 24 0 Aero-Medic P.M.N. antiseptic cream 20 0 2 6 ADDITIONS TO THE LIST KIMBERLY-CLARK, LTD. Kotex new sanitary towel

200 202 6

26 9 A

191 10 22 8

Each

ROBERTS WINDSOR, LTD. Roberts Windsor 1118 bath crystals† 30 0

NEW DOODLETS AND PACK

NEW PRODUCTS AND PA	ICK	.5
BIOMETICA, LTD.		
Pinaud extrait vegetal		
violettes des bois† 8 oz. 50 0	8	4
extrait vegetal lilas de		
France† 8 oz. 50 0	8	4
H. BRONNLEY & CO., LTD.		
Charms soap tablets* 3	7	6
talcum powder†	4	6
toilet water†	10	
perfume†	7	
bath cubes† 6 doubles	5	
dusting powder†	12	
hand lotion†	6	9
CROWN CHEMICAL CO., LTD.		
Improved Pygmia		
vial 25 mils	21	6
F. W. HAMPSHIRE & CO., LTD.		
Zubes* tin	1	0
KLEINERT RUBBER CO.		
Cinderella baby pants		11
large	10	11
KODAK, LTD.		
Kodak Bantam Colorsnap 2		

bath essence†	1 litre	42	0	84	0
Neutrogena tooth-r	paste†	Do 27		3	9
E. R. SQUIBB & S	ONS, LTI				
Rubraton-B elixir	4 oz.	3	10	5	9
	16 oz.	11	8	17	6
	80 oz.	46	8	70	0
UTILITY SERVIC		I-EM	ERI),	LT	D.
Balm Argenta hand					

purse pack

camera*

pillow

M. & R. NORTON, LTD. Wolo Lacpinin balsam

C. & D. RETAIL AND DISPFNSING PRICE LIST

The drug index for August was 208:4

Cost		Items	16 oz.	4 oz.	1 oz.	1 dr.
d.	per	Items	s. d.	s. d.	s. d	s. d.
108	500 gm.	Acacia pulv. opt	_	3 6	1 1	0 2
46	500 gm.	Acid, ricinoleic., B.P. '48	_	1 5	0 5	0 1
79	10 gm.	Amphetamina S.1. (4)	per	gr.	0 1	4 0
77	100 gm.	Balsam, Peruvian, B.P.C	_		3 10	0 6
42	500 gm.	Cupri sulphas	_	1 4	0 5	* 0 1
22	500 gm.	Dextrosum hydrat,	2 6	$0.8\frac{1}{2}$	$0 2\frac{1}{2}$	—
84	100 mils	Ext. colchici liq P.I. (9)	-	-	3 7	0 6
31	25 gm.	Ext. gentianæ	_	_	4 5	$0 7\frac{1}{2}$
60	500 gm.	Hexamina, B.P.C	- 1	1 11	0 7	0 1
90	$\frac{1}{2}$ gal.	Liq. cresol, sap. P.II. (9 or 12)	2 3	$0 7\frac{1}{2}$	$0 2\frac{1}{2}$	_
36	500 gm.	Mucilago tragacanthæ	_	1 2	0 4	0 1
57	25 gm.	Ol. caryophylli	_	_	8 6	1 3
54	25 gm.	Ol. pini sylvestris	_	·	6 8	$0.11\frac{1}{2}$
42	500 gm.	Ol. ricini	4 8	1 4	0 5	_
39	100 gm.	Piper, alb. pulv		- 1	1 8	0 3
34	100 gm.	Piper. nigr. pulv	-		1 5	$0 2\frac{1}{2}$
150	500 gm.	Pasta resorcin, et sulphur,	_	4 10	1 5	$0 2\frac{1}{2}$
30	500 gm.	Potassii nitras	_	$0.11\frac{1}{2}$	$0 3\frac{1}{2}$	<u> </u>
63	500 gm.	Potassii tartras acid	_	2 0	$0 7\frac{1}{2}$	0 1
111	500 mils	Tr. colchici P.I. (9)		3 7	1 1	0 2
72	500 gm.	Ung. acid benzoic. co	_	2 4	$0 8\frac{1}{2}$	0 1
42	500 gm.	Ung. emulsificans aquos		1 4	0 5	_

С	ost	TABLETS	1	tail tainers)
d.	per		25	100
			s. d.	s. d.
120	1000	Ascorbic acid 25-mgm	1 0	2 8
192	1000	Ascorbic acid 50-mgm	1 4	3 8
76	100	Ascorbic acid 200-mgm	3 4	11 1
96	500	Aspirin soluble gr. 5, B.P.C	1 3	3 8
225	1000	Caffein. citras gr. 2	1 5	4 2
108	1000	Grey powder gr. $\frac{1}{2}$	1 0	2 6
447	1000	Phenobarb. et theobrom., B.P.C. S.1. R only	2 3	7 5
82	100	Santonin. co., B.P.C	3 · 7	12 0
102	1000	Sodii citrat. gr. 2	0 10	2 1
156	1000	Sodii citrat. gr. 5	1 0	2 9

The bold letters and figures at left of dispensing price relate to the classification of poisons in THE CHEMIST AND DRUGGIST Poisons Guide.



Sanitary TOWELS



QUANTITY ALLOWANCE

A monetary allowance is made on quantities of 7 gross and over, according to brand.

The demand for our products increases, as the range we offer meets most requirements. If you are not already handling these, ask us, or our Representative about our introductory offer for Sylvia.

SYLVIA

12 per packet

Size:	0	1	2	3
Trade price :	18/6	20/-	23/9	29/9 Dozen
Retail price :	2/-	2/2	2/7	3/3 Packet
Minimum Order	12	12	12	6 Packets

SYLVIA MATERNITY PADS

Size 12 inch. 12 per packet

Trade price: 30/9 Dozen. Minimum Order 6 packets

SOFTEXE

Sizes 1 and 2 only

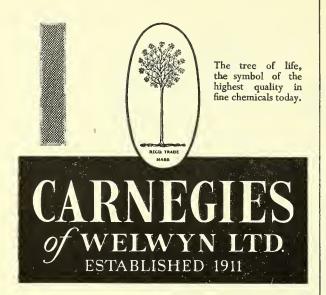
Size :	! (Twelves)	l (Sixes)	2 (Twelves)
Trade price:	17/7	9/-	22/2 Dozen
Retail price:	2/	1/-	2/6 Packet
Minimum Order	12	24	12 Packets

ALTEX

Size 1 only. A splendid seller reserved to the trade

Size :	1 (Twelves)	l (Sixes)
Trade price:	19/- Dozen	9/9 Dozen
Retail price:	2/1 Packet	1/1 Packet
Minimum Order	12 Packers	24 Packets

A PRODUCT OF Cuxson, Gerrarde Co. Ltd. OLDBURY, BIRMINGHAM



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ADRENALINE **ADRENOCHROME** MONOSEMICARBAZONE ALPHANAPHTHYL ACETIC ACID AMINOPHYLLINE **BISMUTH SALTS** BRUCINE AND SALTS CAFFEINE AND SALTS CHRYSAROBIN EPHEDRINE AND SALTS HYDANTOIN DERIVATIVES IODIDES ISOPRENALINE SALTS METHOIN NORADRENALINE AND SALTS P.A.S. SODIUM PIPERAZINE AND SALTS RESERPINE SANTONIN STRYCHNINE AND SALTS THEOBROMINE AND SALTS THIOMERSALATE QUININE AND SALTS CINCHONA FEBRIFUGE TOTAQUINA

CARNEGIES OF WELWYN LTD. Welwyn Garden City, Hertfordshire, England

Phone: WELWYN GARDEN 5001 (10 lines)
Cables: CARNEGIES, WELWYNGARDENCITY

Telex: LONDON 28676

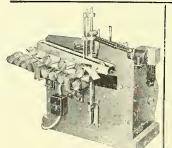
Stick by NEWMAN for fetter labelling The new

NEWMAN

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NEW EXTENDED RANGE LABELLING MACHINE MODEL 24A. Versatile Semi-Automatic bench model Gums and applies labels maximum size $7'' \times 5\frac{1}{4}''$ to a wide range of bottles, etc., up to quart size. Automatic label coding available. Speeds up to 40 per min.



AUTOMATIC BENCH MODEL 48. LABELLING MACHINE for small bottles, vials, cans, tubes, etc., \(\frac{7}{16} \sigma - 2\frac{1}{4} \sigma \) diameter labels up to 7" wide. Speed 40 per min. Only 2 ft. bench space needed.



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ONE

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Slide the magazine into my Airequipt slide changer and away we go. Perfect projection every time, and every transparency automatically returned to its right place in the magazine after showing.

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automatic slide changer

Fits Aldisettes 2 and 3 and Super Aldisette. Adaptor for Aldis 303, 5/-. Adaptors for Aldisette, Aldis 300, Aldis 500, Aldis 1000, Aldis Super Six, Gnome, Hi-Lyte, Leitz 150, Leitz Prado 250, Leitz Prado 500, Leisegang, Orlux, Zeiss, 7/6 each.

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Extra magazine with 36 slide frames.
Only 14/9

The bid is

THE CHEMIST AND DRUGGIST
Supplement
September 19, 1959

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with these stakes you've jus

Bigger ads than last winter win more visibility.

Same papers as last winter —

"Herald", "Mail", "Mirror", "Express".

Quick-fire timing like last winter —

THE SAME SALES FORMULA THAT BUILT HACKS INTO BRITAIN'S FASTEST-GROWING

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CLEAR PROFIT MARGINS

HACKS LOOSE

11d a pound 3/8d a 4lb jar 4/7d a 5lb tin HACKS PRE-PACKS 2d a bag 4/1½d a 24 bag tin

This winter's winnings will be higher than ever!



ND-UP ANOTHER JUI

t to join the game

YOU WANT TO SEE US?

here's the winnin hand



ER NOW-WINTER'S ON E WAY. IT'S LIKE ORDERING DNEY FROM THE MINT.

ACS stepping up the selling pace

just to be on the safe side



DELFEN* Vaginal Cream

The most spermicidal contraceptive from modern research, for use without a diaphragn Package A: 70 gm. tube, with ORTHO Applicato Package B: 70 gm. tube

PRECEPTIN* Vaginal Gel

Contraceptive gel for use without a diaphragn Package A: 82 gm. tube, with ORTHO Applicato Package B: 82 gm. tube

ORTHO-GYNOL* Vaginal Jelly

Package A: 81 gm. tube, with ORTHO Applicator
Package B: 81 gm. tube

ORTHO-CREME* Vaginal Cream

Package A: 70 gm. tube, with ORTHO Applicator Package B: 70 gm. tube

ORTHO-GYNOL* Set

Containing: 81 gm. tube of ORTHO-GYNOL ORTHO Diaphragm. In sizes 55 to 95 (in 5mm. gradations) ORTHO Diaphragm Introducer

ORTHO-CREME* Set

As ORTHO-GYNOL Set with tube of ORTHO-CREME instead of ORTHO-GYNOL Sizes 55 to 95 (in 5mm. gradations)

ORTHO KIT*

Containing: Full size ORTHO-GYNOL, trial size ORTHO-CREME, ORTHO Diaphragm and Diaphragm Introducer in woven plastic zipper bag. Sizes 55 to 95 (in 5mm. gradations)

ORTHO* Duo-Pack

Containing: ORTHO Diaphragm in sizes 55 to 95 (in 5mm. gradations) Trial size ORTHO-GYNOL Trial size ORTHO-CREME

ORTHO* Applicator

For vaginal application of measured dose (5 cc.) ORTHO-GYNOL, ORTHO-CREME, DELFEN Vaginal Cream or PRECEPTIN Vaginal Gel

ORTHO* Vaginal Diaphragm

Coil spring, sizes 55 to 95 (in 5mm. gradations)

ORTHO* Diaphragm Introducer

Individual introducers to accommodate diaphragms sizes 55 to 95 (in 5mm. gradations)

* TRADE MARK

confidence...

The universal confidence in ORTHO contraceptive products reflects the standing and resources of the Ortho Research Foundation—pre-eminent in research investigation, design and development of gynæcological pharmaceuticals.

This confidence in their uniform quality and contraceptive reliability is shared by physicians and patients alike.

It provides the security by which pharmacists everywhere may confidently stock, display and distribute ORTHO products for conception control.

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8 fluid

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The Anglican Bishops endorse Family Planning

"Family planning, in such ways as are mutually acceptable to husband and wife in Christian conscience...is a right and important factor in Christian family life."

REPORT OF THE NINTH LAMBETH CONFERENCE
(1958)

Commenting on the report, the Archbishop of Canterbury said:

"...there is clearly a divine obligation to plan your family and not have them by accident." Asked if he personally advocated family planning, the Archbishop replied:

"What the conference says is that it is a necessity, and I agree."

With these words, the 310 Anglican

Bishops have given their blessing to the principles of family planning. In setting forth this enlightened point of view, they have removed the confusion and controversy which have surrounded the subject for years. Their wise and human approach will be endorsed by thoughtful people everywhere.



The wording on this strip conforms with the code of ethics of the Pharmaceutical Society. (Size of strip: 7" x 2")

The part you play...

Millions of new users are being converted to modern DUREX methods of family planning by our "Planned Families" booklet, extensively advertised in newspapers and magazines.

Write for the discreet "Family Planning Requisites" shelf strip (No. 30), which shows that you are a DUREX stockist. It will bring you extra business—so put it on display.

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Fast aid

for the Family

ST. JAMES' BALM is the proven remedy for common skin troubles—and for some quite uncommon ones too! Because it contains the broth filtrates of the microbes causing most skin infections, treatment is successful in an exceptional number of cases, ST. JAMES' BALM is therefore the ideal general-purpose ointment for family use. On merit alone, ST. JAMES' BALM is in steadily increasing demand. You may stock and recommend it with absolute confidence.

ST. JAMES BALM

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Sole Distributors for the U.K.: ARCHER LABORATORIES LTD., CARGREEN ROAD, LONDON, S.E.25



The modern and safe remedy for head pests



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Suleo Hair Emulsion is formulated with D.D.T. plus Pyrethrins and one treatment clears the worst case of head infestation within minutes. Its toxic effect lasts longer than the nits' incubation period and the hair can be washed 24 hours after treatment without reducing applied. Non-irritant. Non-poisonthe residual lethal effect.

Approved by members of the Medical and Nursing profession. Safe and harmless to hair and scalp. Easily ous. Unobtrusive. Non inflammable.

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A GLOVE

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HOUSEHOLD

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NEED

Attractive household gloves in colourful designs, plastic dot or chemical and oil proof plastic covered gauntlet and knitwrist styles in display cartons for your counter. Write for details.

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FREE ELECTRIC BLANKETS TO BE WON IN THE



ELECTRIC BLANKET

"SWEET DREAMS"

COMPETITION

-and your customers win your share for you

All they do is put Dreamland's special features in the order they think best—there's an entry form packed with every Dreamland Blanket you sell!

Every week for 22 weeks 100's of £££'s worth of standard single size Dreamland blankets will be given as prizes—from September 28th onl

Every pair of Dreamland blankets one of your customers wins will bring you a pair of blankets — that's over £2,500 worth of free stock for retailers!

Yes, 22 whole weeks of Big Prizes—for you and your customers—in the Dreamland "Sweet Dreams" Competition—all backed up by Deamland's biggest-ever National Advertising Campaign.

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PRESS ADVERTISING

-big spaces in the magazines that command the women's market, reaching almost 5,000,000 women

-AND HERE'S STILL MORE GOOD NEWS!

5% EXTRA DISCOUNT

ON ALL DREAMLAND ORDERS. Yes on all orders: so send yours to your usual Wholesaler as early as possible. And with your first stock of Dreamland — the super-size blankets that warm the whole bed — will come a special Showcard to link your shop with the easy-to-enter "Sweet Dreams" Competition.

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Philips Sunlamp gives the blessing of "Mountain sunshine". Doctors know the value of the right type of sunlight and do not hesitate to recommend the Philips Ultra-violet Sunlamp Price: £5.17s.6d. (including goggles)

A doctor's certificate must be presented when either of these lamps is purchased by the public.

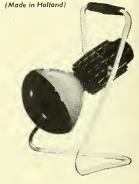
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Philips Infraphil was installed in the medical centres at the last two Olympic Games. It is most valuable in alleviating the pain of arthritis, rheumatism and muscle-strain. Infraphil Infrared lamp costs only £3.3s.0d. (as illustrated). De-luxe model "A" Price: £4.4s.0d.



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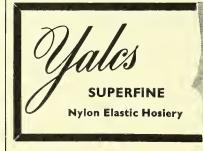


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Dak for Rats and Mice; Kay's Warfarin rat and mouse killer; Honeypot Flycatchers; Kay's Linseed Compound; Seapine Disinfectant Concentrate Tablets

KAY BROTHERS LIMITED . STOCKPORT

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Two up - to - the - minute shades New Light and New Dark Already enthusiastically received.

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Fully advertised in leading women's magazines throughout the season.

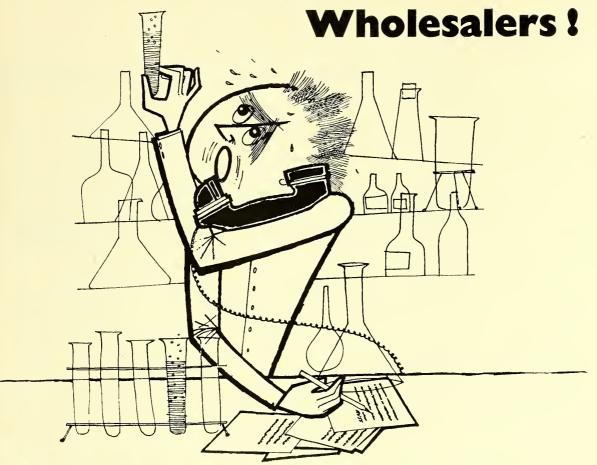
Easier to sell

* YALCS SERVICE

Full Foot in a new Dark shade Open toe in a new Light shade Available against N.H.S. prescriptions

Display material, leaflets, shade cards available from Sales Agents:—

GLENSIDE (London) LTD. 37 PERCY STREET LONDON W.I



chemists are busy people...



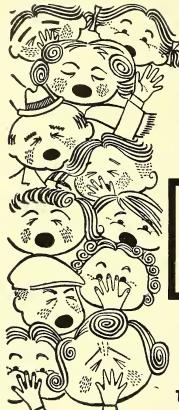
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They're rushing to stop coughing!

And they won't stop rushing till they've experienced the consolation of smooth and dependable relief—as provided by 'Pectamol' Linctus and 'Tussimol' Cough Pastilles. Each contains oxeladin, an entirely new type of cough suppressant acting directly on the medullary centre.

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COUGH PASTILLES

'PECTAMOL'

LINCTUS

The pleasantly flavoured pastilles that deal effectively with the dry 'tickling' cough.

TRADE: per dozen tins 23/9.

RETAIL: 2/8 each—exempt P.T.

Special winter bonus terms for direct

For specific cough suppression with local demulcent effect,

TRADE RETAIL 60 ml. 2/6 3/9 250 ml. 8/9 2 litres 56/1

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SURE WINNER THAT SELLS ON SIGHT

THE **PATERSON ILLUMINATED 2 x 2** TRANSPARENCY VIEWER

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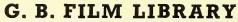


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Build a Movie-pak Library and you build a wide, firm circle of regular customers. For every Movie-pak hired means a customer inside your shop twice (first to select, then to return) and he'll see whatever you care to display—twice. Result? Customers see what they need: equipment or screens, accessories or films... whatever it is, in your shop. Buying from you becomes a comfortable habit. Profit in so many ways by building up your Film Library with Movie-paks—stock the latest releases. You can count on us to help you with catalogues and displays.

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Customers find 8 and 16 mm. Movie-pakettes wonderful value and can afford to buy them often and regularly. No wonder sales are soaring with such excellent films, and such a variety at 25/- for an 8 mm. movie—four for a fiver. Get your projector customers into the habit by selling them Movie-pakettes when they buy their projectors . . . they'll keep coming back for more.



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Over 1/9 BOX PROFIT by ordering 1 dozen 6/3 size. Bonus given on every dozen (13). It pays to push this size.

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FWS

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Men are conservative creatures who cling through the years to the toiletries that please them. Especially when Cuticura—that mark of distinction—is the brand they favour. You simply cannot afford not to stock, show—and recommend to new shavers—

Cuticura MILDLY MEDICATED

Shaving Stick

And don't forget the rest of the popular Cuticura range

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a unique self-sterile Ointment that compares with no other in the treatment of:—

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ask your usual wholesale House for supplies

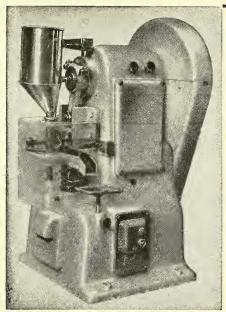
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Assistant-in-Dispensing
Whitley Council scales. Permanent

required. Writtey Council scales. Permanent appointment.
Resident or non-resident.
Applications giving previous experience and names and addresses of two referces to Hospital Secretary, Black Notley Hospital, nr. Braintree, from whom further details may be obtained.

C 9678

MANAGEMENT COMMITTEE

Pharmacist

for Bethnal Green Hospital. Modern department
approved for training students. Salary scale
£605—£815 p.a. plus London Weighting and
higher qualification allowance. Please apply
with details of age, training and experience to
the Group Secretary, 213 Kingsland Road,
London, E.2.

C 484

CENTRAL MIDDLESEX HOSPITAL

(Category V)

PARK ROYAL, LONDON, N.W.10

Senior Pharmacist

Applications are invited for the above post.

Salary on the Whitley Council scale plus London Weighting and higher qualification allowance where applicable. Applications together with the names of two referees, to be sent to the Medical Director, as soon as possible. the Medical Director, as soon as possible

CHEADLE ROYAL HOSPITAL

either sex to take complete charge of the dis-pensing services of this 400-bed voluntary men-tal hospital, with newly opened Day Hospital facilities.

facilities.

The post offers a real opportunity to a pharmacist interested in the modern therapeuties of mental health and participating in the weekly staff clinical meetings is envisaged by the Medical Superintendent, Dr. W. V. Wadsworth, D. D. M. M. R. C. P.

D.P.M., M.R.C.P.
Please send full particulars to Dr. Wadsworth.
C 9665

CENTRAL GROUP HOSPITAL MANAGEMENT COMMITTEE, BETHNAL GREEN HOSPITAL, CAMBRIDGE HEATH ROAD, LONDON, E.2

Locum Pharmacist required to cover periods of annual leave up to required to cover periods of annual leave up to October 3 for three general hospitals. Salary 18 guineas per week. Please apply to Chief Pharmacist, Bethnal Green Hospital, Cambridge Heath Road, E.2. (Phone: Advance 3413.) C 447

DULWICH HOSPITAL EAST DULWICH GROVE,

EAST DULWICH GROVE,
LONDON, S.E.22
Senior Pharmacist (Category III)
Applications invited for the above post. Vacant
October 17. Whitley Council salary and conditions of service; £675 to £865 p.a. plus London
Weighting rising to £40 p.a. Higher qualification allowance payable where applicable. The
Department is responsible for purchase and issue
of drugs, dressings and surgical instruments,
and can be inspected by arrangement with
Chief Pharmacist. and can be ins Chief Pharmacist.

Applications giving age and qualifications and experience details, to Group Secretary, Dulwich Hospital.

GENERAL HOSPITAL, NOTTINGHAM

Locum Pharmacist
required immediately for the General Hospital

and Eye Hospital.
Salary, £18 18s, per week.
Applications to the Group Secretary, General Hospital, Nottingham.

HERTFORD COUNTY HOSPITAL, HERTFORD

HERTFORD

(21 miles from London)
Senior Pharmacist (Category III)
Applications are invited for the above post.
Salary scale £675 to £865 p.a. Duties under direction of Chief Pharmacist and to commence as soon as possible. Department responsible for purchase and issue of drugs, dressings, surgical instruments and equipment for above and two other small hospitals, also for supervision of Central Sterilising Department.
Applications giving details of age, qualifications and experience, with names of two referees to Hospital Secretary, Hertford County Hospital, Hertford, Herts.

C 9664

HIGHBURY HOSPITAL, BULWELL, NOTTINGHAM Pharmacist

Applications are invited for the above appointment. The post offers good opportunity to obtain experience in general pharmaceutical work. Salary £605 x £30 rising to £815. Apply stating age, qualifications, experience and names two referees, to Hospital Secretary.

KINGSTON HOSPITAL.

WOLVERTON AVENUE,
KINGSTON-ON-THAMES
Locum Pharmacist
required immediately. Salary £18 18s. per week
for three weeks or £16 16s. per week for a
longer period. Applications to Physician Superintendent to the Hospital. C 483

LEAVESDEN GROUP HOSPITAL MANAGEMENT COMMITTEE, ABBOTS LANGLEY, Nr. WATFORD, HERTS Pharmacist

Pharmacist
required for duties in the hospitals comprising
this Group. Salary in the scale £605-£815 p.a.
Group situated in rural Hertfordshire within
easy reach of London. Viewing of the department by appointment with the Group Chief
Pharmacist. Telephone: Garston 2222. Apply
Group Secretary with details of experience.
C 9676

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Appointments—Continued

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Chief Pharmacist
Applications are invited for the above appointment to the Knowle Group of Hospitals which comprises Knowle Hospital, Farcham, the Old Manor Hospital, Salisbury and Fairfield House, Droxford. The Chief Pharmacist will be based at Knowle Hospital and will be responsible for the pharmaceutical departments of the Group and also for Coldeast Hospital, Saris-

Group and also for Coucast Frogram, bury Green.
The salary (Category II) £775 rising to £1,030 and the terms and conditions of employment are in accordance with Whitley Council awards. The post is superannuable.
Applications stating age, qualifications, experience and the names of two referees should be submitted to the Group Secretary, Knowle Hospital, Fareham, Hants, by September 30, 1959.

C 9693

LAMBETH HOSPITAL,

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Shorthand Typist
for pharmaceutical department with clerical
duties. Interesting variety of work, Salary £424
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Contributory pension scheme. Lunch facilities.
Written applications naming two referees to
Secretary immediately. C 9696

LAMBETH HOSPITAL, **BROOK DRIVE, S.E.11** (Acute General—501 beds)

Assistant-in-Dispensing required. Whitley Council rates. Applications, stating age, experience and names of two referees to the Secretary.

LEYTONSTONE (No. 10)
HOSPITAL GROUP
Pharmacist
Applications are invited for the post of Pharmacist at Whipps Cross Hospital, London, E.11
(Category V hospital).
The hospital is ideally situated, being on the Central Underground Line within 20 minutes of Central London.

of Central London.

Application forms from the Hospital Secretary to be returned as soon as possible. C 478

LEYTONSTONE (No. 10) HOSPITAL GROUP Assistant-in-Dispensing

Assistant-in-Dispensing
Applications are invited from persons holding the Certificate of the Society of Apothecaries of London, or an equivalent qualification, for the post of Assistant-in-Dispensing at Whipps Cross Hospital, Leytonstone, E.11.
Commencing salary according to age and experience, i.e., at age 22 £395 per annum rising by annual increments to a maximum of £510 per annum, plus London Weighting Allowance at the rate of £20 per annum, rising to £30 per annum at the age of 26 years. Additionally, a qualification allowance is payable at the rate of £20 per annum.

of £20 per annum.

Application forms are obtainable from the Hospital Secretary, to be returned as soon as pos-

LONDON JEWISH HOSPITAL, STEPNEY GREEN, E.1

Locum Assistant-in-Dispensing Locuni Assistant-in-Dispensing required at the above hospital. Salary according to Whitley Council scales, Preference given to applicants holding the certificate of the Society of Apothecaries of London. Applications stating age, experience and names and addresses of two referees, to the Chief Pharmacist.

C 9674

METROPOLITAN HOSPITAL, KINGSLAND ROAD, LONDON, E.8 Locum Pharmacist

required to work in a modern department Apply to Hospital Secretary. C 445

STEPNEY GROUP HOSPITAL MANAGEMENT COMMITTEE, MILE END HOSPITAL

BANCROFT ROAD, LONDON, E.1
Post-Graduate Student Pharmacist
required at the above hospital to commence
duty in January 1960, Salary scale and conditions of service in accordance with Whitley
Council. Applications, with names of two referees, to be sent to the Chief Pharmacist.

MID-WALES H.M.C. Amended Advertisement

Amended Advertisement
Chief Pharmacist (Category III)

Applications are invited for the above post for the Group Pharmacy. This is a pioneer appointment and the successful applicant will be required to organise and develop a new pharmaceutical service for the Group, and also will be required to assist in the planning of a department in a new hospital unit to be built in the near future. Terms and conditions of service in accordance with Pharmaceutical Whitley Council agreements salary scale Category III, £815 by 8 increments to £1,115. Unfurnished flat available. flat available.

nat available. Applications giving full details of age, qualifica-tions and experience together with the names and addresses of three referces to Group Secre-tary, 31 North Parade, Aberystwyth, by Sep-tember 28, 1959.

MORGANNWG HOSPITAL
MANAGEMENT COMMITTEE
Assistant-in-Dispensing
Applications are invited for the above appointment at the Morgannwg Hospital, Bridgend.
The appointment is subject to the terms and conditions of the appropriate Whitley Council.
The salary will be according to age up to 21 years commencing at £175 at 16 years and for persons 22 years and over a scale of £395 by seven annual increments to a maximum of £510 per annum. Additional payment of £20 for approved qualifications, Applications stating age, qualifications, experience, present and previous appointments, together with the names and addresses of two referees, should be sent to the Group Secretary, Morgannwg Hospital, Bridgend, Glam, and received not later than October 3, 1959.

C 9686

PORTSMOUTH GROUP HOSPITAL MANAGEMENT COMMITTEE

COMMITTE
Senior Pharmacist

Applications are invited for the above appointment at the Royal Portsmouth Hospital. The department, of recent construction, is well staffed and equipped, and a wide range of pharmaceutical duties are undertaken. Salary scale 6675 to £865 per annum plus £25 higher qualification allowance where applicable. National Health Service (Superannuation) Regulations. Applications stating age, qualifications and previous experience together with the names and addresses of two referees, should reach the Group Pharmacist, Queen Alexandra Hospital, Cosham, Portsmouth, within seven days of the appearance of this advertisement. C 9691

SOUTH LONDON HOSPITAL FOR WOMEN AND CHILDREN, CLAPHAM COMMON, S.W.4 (Acute General, 254 beds)

Senior Pharmacist required. Applications stating age, qualifications, experience and names of two referees to the Secretary. C 469

STEPPING HILL HOSPITAL, **STOCKPORT**

(Category IV)
Senior Pharmacist and Pharmacist
Immediate applications are invited for the above

The Department provides a service to a Group of Hospitals of 1,200 beds, and offers experior Hospitais of 1,200 beds, and offers experi-ence in pharmaceutical practice. Applications, with names of two referees, should be addressed to the Group Secretary, Stockport and Buxton Hospital Management Committee, 59B Shaw Heath, Stockport. C 9683

ST. MARK'S HOSPITAL,

CITY ROAD, LONDON, E.C.1

Locum Pharmacist
required for three weeks commencing immediately. Salary 18 gns. per week. Applications to Secretary.

C 9694

WEST MIDDLESEX HOSPITAL,

ISLEWORTH, MIDDLESEX

Assistant-in-Dispensing
required in Pharmaceutical Department for varied duties. Salary £395 per annum at age 22, rising to £510, plus London Weighting (additional payment of £20 per annum for suitable qualifications)

suitable qualifications).

Apply giving names of two referees to the Chief Pharmacist.

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Salary Scale: £800 x £50—£900 x £60—£1,560, plus 5 per cent, temporary vacation savings bonus up to £60 per annum for married men and £30 for single men.
Experience and qualifications will determine the commencing notch of the salary scale. The successful candidate will be expected to assume duty in January 1960.
Applicants must possess a degree in Pharmacy and a pharmaceutical qualification registerable with the South African Pharmacy Board. Special interest in pharmaceutical chemistry will be an advantage.
Applicants must have had teaching and/or

Applicants must have had teaching and/or industrial pharmaceutical experience and be able to undertake general teaching to the level

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The College will pay half-salary from date of sailing to date of assuming duty, plus reasonable travelling expenses for successful appliant.

Application forms obtainable from: Frank Ross & Co. (London), Ltd., Marlow House, Lloyd's Avenue, London, E.C.3.

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Representative: an energetic, conscientious young man, experienced in calling upon Chemists, who has the education, background and ability eventually to assume executive status is needed to cover Scotland. Occasional visits to another territory may be necessary, and later transfer to a more Southern area is a possibility. Good salary, commission, car, expenses. Please write in strict confidence, enclosing a photograph if possible, giving fullest details, personal. education, career, to:

Home Sales Manager,
Miles Products Division,
Miles Products Division,
Nuffield House,
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Nuffield House, Piccadilly, London, W.1.

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must be mobile.

The successful applicant will have initiative as well as integrity; and the post should be permanent and progressive. After an initial period of service entry to a pension scheme would be avail-

Applications giving full personal particulars, details of experience, and salary required, will be treated as com-pletely confidential, and acknowledged. Write Sales Manager, Box C 9684.

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analytical experience, although it is not essential.

The salary offered will depend upon age, qualifications, and experience. First-class staff conditions,
Applications should be addressed to the Personnel Officer (Ref. WLK), Wellcome Chemical Works, Dartford, Kent. C 9682

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require a representative to cover Kent and East Sussex.

A pharmaceutical qualification or ade-

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PROCESS WORKER experienced in manufac-PROCESS WORKER EXPERIENCE IN IMAGE
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Good salary and conditions. Apply giving full
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9494. C 9689

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SALES REPRESENTATIVE

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Company car and expenses.

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C 9651

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Home Sales Manager, 33 Old Bond Street, London, W.1

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C 2410.

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C 438

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J. FOLKARD,
Administrative Offices,
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Leeds, 9.

C 9681

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